

1982-1983
CATALOG

WRIGHT HALL
ADMINISTRATION

Southern College

At Your Service

Inquiries by mail or telephone should be directed as follows:

SOUTHERN COLLEGE

Collegedale, Tennessee 37315

Telephone 396-2111

Area Code 615

ACADEMIC PROGRAMS AND REQUIREMENTS—Academic Dean,
396-4005

ADMISSIONS, RECRUITMENT, and RETENTION—Director of Admissions, Recruitment and Retention, 396-4007

ALUMNI ASSOCIATION—396-4246

COLLEGE DEVELOPMENT—Director of Development, 396-4388

GENERAL INTEREST—President, 396-4000

HOUSING—Residence Hall Living—Dean of Students, 396-4232

Married Students' Housing, 396-4233

Men's Residence Hall, 396-4377

Women's Residence Hall, 396-4378

PUBLIC RELATIONS—Director of Public Relations, 396-4252

RECORDS—Director of Records, 396-4311

STUDENT FINANCE—Director of Student Finance, 396-4322

Although overnight accommodations are limited, parents and other friends of Southern College are cordially invited to visit the campus. The Recruitment Office will gladly arrange for you to see the college facilities and visit classes or other activities. Administrative offices are open from 9:00 a.m. to 12:00 noon, Monday through Friday, and 1:00-4:00 p.m., Monday through Thursday.

NOT TO BE TAKEN
FROM LIBRARY

Catalog of

SOUTHERN COLLEGE

of

Seventh-day Adventists



COLLEGEDALE, TENNESSEE 37315

SC welcomes applications from students regardless of race, sex, religion, color, or national origin whose principles and interests are in harmony with the ideals and traditions of the College as expressed in its objectives and policies.

McKEE LIBRARY

Southern Missionary College

Collegedale, Tennessee 37315

Academic Calendar

SUMMER SESSION, 1982

The SC summer term consists of four four-week sessions. A student may register at any time during the two weeks immediately preceding the session or on the first day of the session. Registration for the second and fourth sessions will be held from 2:00 p.m. to 5:00 p.m. on the Sunday before the first day of classes.

1. No class may be added after the third day of classes of a session.
2. Withdrawals during the first two weeks of a session receive a W, during the third week a W or WF, and during the fourth week an F.

APRIL

- 30 First Session Classes Begin

MAY

- 27 End of First Session
30 Registration for Second Session, 2:00-5:00 p.m. Records Office.
31 Second Session Classes Begin

JUNE

- 25 End of Second Session
28 Third Session Classes Begin

JULY

- 23 End of Third Session
26 Fourth Session Classes Begin

AUGUST

- 21 End of Fourth Session

FALL SEMESTER, 1982

AUGUST

- 13-15 Colloquium
19, 20 ACT and CLEP Tests
23 Freshman Orientation and Registration 8-12; 1-5. Senior Registration 8-12, by Appointment
24 Registration by Appointment—Sophomores, Juniors, Special Students
25 Classes Begin
25 Late Registration Fee Applies

SEPTEMBER

- 1 \$7 Fee for Each Change of Class Program
8 Last Day to Add Classes
15 No Tuition Reduction for Withdrawal After This Date

OCTOBER

- 8, 9 Alumni Homecoming
14 Mid-Semester
15-17 Mid-Semester Vacation

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1983

C.1

NOVEMBER

- 8-19 Spring Semester Advising
- 25-29 Thanksgiving Vacation

DECEMBER

- 13-16 Semester Exams
- 16 Commencement
- 17 - Jan. 2 Christmas Vacation

SPRING SEMESTER, 1983

JANUARY

- 3 Registration
- 4 Classes Begin
- 4 Late Registration Fee Applies
- 11 \$7 Fee for Each Change of Class Program
- 18 Last Day to Add Classes
- 25 No Tuition Reduction for Withdrawal After This Date

FEBRUARY

- 25 Mid-Semester
- 25 - Mar. 6 Mid-Semester Vacation

MARCH

- 7 Classes Begin

APRIL

- 10-11 College Days
- 25-28 Semester Exams

MAY

- 1 Commencement

SUMMER SESSION, 1983

MAY

- 2 Classes Begin
- 27 End of First Session
- 29 Registration for Second Session, 2:00-5:00 p.m.
- 30 Second Session Classes Begin

JUNE

- 24 End of Second Session
- 27 Third Session Classes Begin

JULY

- 22 End of Third Session
- 25 Fourth Session Classes Begin

AUGUST

- 19 End of Fourth Session

CONTENTS

At Your Service	Inside Front Cover
Academic Calendar for 1982-83	ii
This Is Southern College	1
Student Life and Services	5
Admission to SC	10
Programs of Study — Degrees and Curricula	15
Academic Information	27
Division of Arts and Letters	37
Art	39
Communication	43
English	49
History	54
Modern Languages	58
Division of Business and Office Administration	64
Division of Education and Human Sciences	79
Behavioral Science	79
Education	85
Home Economics	99
Library Science	105
Division of Health, Physical Education and Recreation	109
Division of Industrial Education	115
Aviation	123
Division of Mathematical Sciences	125
Computer Science	125
Mathematics	129
Physics	132
Engineering	136

Division of Music	139
Division of Natural Science	149
Biology	149
Chemistry	155
Allied Health	159
Medical Science	162
Medical Technology	163
Division of Nursing	166
Division of Religion	179
Self-Supporting Work	187
Non-degree Pre-professional Programs	189
Student Financial Information	194
SC Principals and Presidents	210
SC Trustees	211
College Administration	212
Faculty Directory	215
Faculty Committees	226
Index	229

101	CONTENTS	101
102	1. General Introduction	102
103	2. The Nature of the Problem	103
104	3. The Scope of the Study	104
105	4. The Method of Investigation	105
106	5. The Results of the Study	106
107	6. The Conclusions of the Study	107
108	7. The Significance of the Study	108
109	8. The Limitations of the Study	109
110	9. The Acknowledgments	110
111	10. The Bibliography	111
112	11. The Appendixes	112
113	12. The Index	113
114	13. The Glossary	114
115	14. The List of Figures	115
116	15. The List of Tables	116
117	16. The List of References	117
118	17. The List of Abbreviations	118
119	18. The List of Symbols	119
120	19. The List of Equations	120
121	20. The List of Formulas	121
122	21. The List of Diagrams	122
123	22. The List of Photographs	123
124	23. The List of Maps	124
125	24. The List of Charts	125
126	25. The List of Graphs	126
127	26. The List of Plots	127
128	27. The List of Diagrams	128
129	28. The List of Photographs	129
130	29. The List of Maps	130
131	30. The List of Charts	131
132	31. The List of Graphs	132
133	32. The List of Plots	133
134	33. The List of Diagrams	134
135	34. The List of Photographs	135
136	35. The List of Maps	136
137	36. The List of Charts	137
138	37. The List of Graphs	138
139	38. The List of Plots	139
140	39. The List of Diagrams	140
141	40. The List of Photographs	141
142	41. The List of Maps	142
143	42. The List of Charts	143
144	43. The List of Graphs	144
145	44. The List of Plots	145
146	45. The List of Diagrams	146
147	46. The List of Photographs	147
148	47. The List of Maps	148
149	48. The List of Charts	149
150	49. The List of Graphs	150
151	50. The List of Plots	151
152	51. The List of Diagrams	152
153	52. The List of Photographs	153
154	53. The List of Maps	154
155	54. The List of Charts	155
156	55. The List of Graphs	156
157	56. The List of Plots	157
158	57. The List of Diagrams	158
159	58. The List of Photographs	159
160	59. The List of Maps	160
161	60. The List of Charts	161
162	61. The List of Graphs	162
163	62. The List of Plots	163
164	63. The List of Diagrams	164
165	64. The List of Photographs	165
166	65. The List of Maps	166
167	66. The List of Charts	167
168	67. The List of Graphs	168
169	68. The List of Plots	169
170	69. The List of Diagrams	170
171	70. The List of Photographs	171
172	71. The List of Maps	172
173	72. The List of Charts	173
174	73. The List of Graphs	174
175	74. The List of Plots	175
176	75. The List of Diagrams	176
177	76. The List of Photographs	177
178	77. The List of Maps	178
179	78. The List of Charts	179
180	79. The List of Graphs	180
181	80. The List of Plots	181
182	81. The List of Diagrams	182
183	82. The List of Photographs	183
184	83. The List of Maps	184
185	84. The List of Charts	185
186	85. The List of Graphs	186
187	86. The List of Plots	187
188	87. The List of Diagrams	188
189	88. The List of Photographs	189
190	89. The List of Maps	190
191	90. The List of Charts	191
192	91. The List of Graphs	192
193	92. The List of Plots	193
194	93. The List of Diagrams	194
195	94. The List of Photographs	195
196	95. The List of Maps	196
197	96. The List of Charts	197
198	97. The List of Graphs	198
199	98. The List of Plots	199
200	99. The List of Diagrams	200
201	100. The List of Photographs	201
202	101. The List of Maps	202
203	102. The List of Charts	203
204	103. The List of Graphs	204
205	104. The List of Plots	205
206	105. The List of Diagrams	206
207	106. The List of Photographs	207
208	107. The List of Maps	208
209	108. The List of Charts	209
210	109. The List of Graphs	210
211	110. The List of Plots	211
212	111. The List of Diagrams	212
213	112. The List of Photographs	213
214	113. The List of Maps	214
215	114. The List of Charts	215
216	115. The List of Graphs	216
217	116. The List of Plots	217
218	117. The List of Diagrams	218
219	118. The List of Photographs	219
220	119. The List of Maps	220
221	120. The List of Charts	221
222	121. The List of Graphs	222
223	122. The List of Plots	223
224	123. The List of Diagrams	224
225	124. The List of Photographs	225
226	125. The List of Maps	226
227	126. The List of Charts	227
228	127. The List of Graphs	228
229	128. The List of Plots	229
230	129. The List of Diagrams	230
231	130. The List of Photographs	231
232	131. The List of Maps	232
233	132. The List of Charts	233
234	133. The List of Graphs	234
235	134. The List of Plots	235
236	135. The List of Diagrams	236
237	136. The List of Photographs	237
238	137. The List of Maps	238
239	138. The List of Charts	239
240	139. The List of Graphs	240
241	140. The List of Plots	241
242	141. The List of Diagrams	242
243	142. The List of Photographs	243
244	143. The List of Maps	244
245	144. The List of Charts	245
246	145. The List of Graphs	246
247	146. The List of Plots	247
248	147. The List of Diagrams	248
249	148. The List of Photographs	249
250	149. The List of Maps	250
251	150. The List of Charts	251
252	151. The List of Graphs	252
253	152. The List of Plots	253
254	153. The List of Diagrams	254
255	154. The List of Photographs	255
256	155. The List of Maps	256
257	156. The List of Charts	257
258	157. The List of Graphs	258
259	158. The List of Plots	259
260	159. The List of Diagrams	260
261	160. The List of Photographs	261
262	161. The List of Maps	262
263	162. The List of Charts	263
264	163. The List of Graphs	264
265	164. The List of Plots	265
266	165. The List of Diagrams	266
267	166. The List of Photographs	267
268	167. The List of Maps	268
269	168. The List of Charts	269
270	169. The List of Graphs	270
271	170. The List of Plots	271
272	171. The List of Diagrams	272
273	172. The List of Photographs	273
274	173. The List of Maps	274
275	174. The List of Charts	275
276	175. The List of Graphs	276
277	176. The List of Plots	277
278	177. The List of Diagrams	278
279	178. The List of Photographs	279
280	179. The List of Maps	280
281	180. The List of Charts	281
282	181. The List of Graphs	282
283	182. The List of Plots	283
284	183. The List of Diagrams	284
285	184. The List of Photographs	285
286	185. The List of Maps	286
287	186. The List of Charts	287
288	187. The List of Graphs	288
289	188. The List of Plots	289
290	189. The List of Diagrams	290
291	190. The List of Photographs	291
292	191. The List of Maps	292
293	192. The List of Charts	293
294	193. The List of Graphs	294
295	194. The List of Plots	295
296	195. The List of Diagrams	296
297	196. The List of Photographs	297
298	197. The List of Maps	298
299	198. The List of Charts	299
300	199. The List of Graphs	300
301	200. The List of Plots	301
302	201. The List of Diagrams	302
303	202. The List of Photographs	303
304	203. The List of Maps	304
305	204. The List of Charts	305
306	205. The List of Graphs	306
307	206. The List of Plots	307
308	207. The List of Diagrams	308
309	208. The List of Photographs	309
310	209. The List of Maps	310
311	210. The List of Charts	311
312	211. The List of Graphs	312
313	212. The List of Plots	313
314	213. The List of Diagrams	314
315	214. The List of Photographs	315
316	215. The List of Maps	316
317	216. The List of Charts	317
318	217. The List of Graphs	318
319	218. The List of Plots	319
320	219. The List of Diagrams	320
321	220. The List of Photographs	321
322	221. The List of Maps	322
323	222. The List of Charts	323
324	223. The List of Graphs	324
325	224. The List of Plots	325
326	225. The List of Diagrams	326
327	226. The List of Photographs	327
328	227. The List of Maps	328
329	228. The List of Charts	329
330	229. The List of Graphs	330
331	230. The List of Plots	331
332	231. The List of Diagrams	332
333	232. The List of Photographs	333
334	233. The List of Maps	334
335	234. The List of Charts	335
336	235. The List of Graphs	336
337	236. The List of Plots	337
338	237. The List of Diagrams	338
339	238. The List of Photographs	339
340	239. The List of Maps	340
341	240. The List of Charts	341
342	241. The List of Graphs	342
343	242. The List of Plots	343
344	243. The List of Diagrams	344
345	244. The List of Photographs	345
346	245. The List of Maps	346
347	246. The List of Charts	347
348	247. The List of Graphs	348
349	248. The List of Plots	349
350	249. The List of Diagrams	350
351	250. The List of Photographs	351
352	251. The List of Maps	352
353	252. The List of Charts	353
354	253. The List of Graphs	354
355	254. The List of Plots	355
356	255. The List of Diagrams	356
357	256. The List of Photographs	357
358	257. The List of Maps	358
359	258. The List of Charts	359
360	259. The List of Graphs	360
361	260. The List of Plots	361
362	261. The List of Diagrams	362
363	262. The List of Photographs	363
364	263. The List of Maps	364
365	264. The List of Charts	365
366	265. The List of Graphs	366
367	266. The List of Plots	367
368	267. The List of Diagrams	368
369	268. The List of Photographs	369
370	269. The List of Maps	370
371	270. The List of Charts	371
372	271. The List of Graphs	372
373	272. The List of Plots	373
374	273. The List of Diagrams	374
375	274. The List of Photographs	375
376	275. The List of Maps	376
377	276. The List of Charts	377
378	277. The List of Graphs	378
379	278. The List of Plots	379
380	279. The List of Diagrams	380
381	280. The List of Photographs	381
382	281. The List of Maps	382
383	282. The List of Charts	383
384	283. The List of Graphs	384
385	284. The List of Plots	385
386	285. The List of Diagrams	386
387	286. The List of Photographs	387
388	287. The List of Maps	388
389	288. The List of Charts	389
390	289. The List of Graphs	390
391	290. The List of Plots	391
392	291. The List of Diagrams	392
393	292. The List of Photographs	393
394	293. The List of Maps	394
395	294. The List of Charts	395
396	295. The List of Graphs	396
397	296. The List of Plots	397
398	297. The List of Diagrams	398
399	298. The List of Photographs	399
400	299. The List of Maps	400
401	300. The List of Charts	401
402	301. The List of Graphs	402
403	302. The List of Plots	403
404	303. The List of Diagrams	404
405	304. The List of Photographs	405
406	305. The List of Maps	406
407	306. The List of Charts	407
408	307. The List of Graphs	408
409	308. The List of Plots	409
410	309. The List of Diagrams	410
411	310. The List of Photographs	411
412	311. The List of Maps	412
413	312. The List of Charts	413
414	313. The List of Graphs	414
415	314	

THIS IS SOUTHERN COLLEGE

I. DESCRIPTION

Southern College is a four-year co-educational institution established by the Seventh-day Adventist Church primarily to serve its constituents in the southeastern* part of the United States. Its purpose is to provide liberal arts, professional, pre-professional, and vocational curricula in a Christian setting.

II. STATEMENT OF EDUCATIONAL PHILOSOPHY AND OBJECTIVES

The purpose of higher education in the Seventh-day Adventist Church is rooted in a comprehensive theological understanding of humanity in the world. The following is a summary of this understanding:

- (1) Seventh-day Adventists believe that God is the Creator and Sustainer of the earth and its inhabitants. He is the Source of all knowledge.
- (2) Created in the image of God for the purpose of communion with Him, man possessed harmonious physical, mental, spiritual, and social attributes.
- (3) As a result of sin, these attributes were seriously marred, but God in His love provided a redemptive plan for the restoration of His image in humanity, thus preparing man for eternal personal fellowship with God.

In the context of this theological understanding, education is viewed as an essential element of redemption, including an awareness of man's relationship to God and a commitment of service to mankind. Education, consequently, must focus on developing the whole person. Southern College attempts to provide a spiritual, intellectual, social, and physical environment designed to encourage this development through the following specific objectives.

Spiritual

Students are expected to acquire an understanding of the beliefs and value system of Christianity as understood by the Seventh-day Adventist Church. Religious instruction in the classroom, religious convocations,

*The College is operated by the Southern Union Conference of Seventh-day Adventists, which is comprised of the churches in the states of Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee.

This Is SC

2

and a variety of opportunities for Christian fellowship and service provide the context in which students are encouraged to make their own commitment to these ideals.

Intellectual

Faculty and students constitute a fellowship of Christian scholars engaged in a lifelong pursuit of learning. Academic activities are therefore designed to assist students in achieving intellectual and career goals and in acquiring skills for future learning. A liberal education curriculum is designed to develop critical thinking and expression, intellectual curiosity, aesthetic appreciation, and cultural awareness to help fit students for the realization of their immediate and long-range goals.

Social

Since social maturity is necessary for successful family and community living, Southern College endeavors to provide for the development of healthy interpersonal relations, communication skills, and decision-making abilities in an atmosphere marked by personal concern and acceptance.

Physical

The development of the whole person would be incomplete without attention to physical well-being. Principles of healthful living, including a balanced program of exercise, rest, diet, study, work, and recreation are promoted through instruction, work experience, and recreational facilities.

HISTORY

In 1892 the educational venture that developed into Southern College had its beginning in the Seventh-day Adventist Church in the small village of Graysville, Tennessee. The school became known as Graysville Academy. In 1896 the name was changed to Southern Industrial School and five years later to Southern Training School.

In 1916, because of limited acreage available for further expansion of plant facilities, the school was moved to the Thatcher farm in Hamilton County, Tennessee. The name "Collegedale" was given to the anticipated community. At its new location the school opened as Southern Junior College and continued as such until 1944 when it achieved senior college status and the name was changed to Southern Missionary College. Through the ensuing years the College had become known to its alumni and friends as SMC. On February 16, 1982, the name was again changed to Southern College of Seventh-day Adventists.

SETTING

SC's main campus is nestled in a valley surrounded by over one thousand acres of school property. The quietness and beauty of the

peaceful surroundings are in keeping with the college's educational philosophy.

The community and campus post office address is Collegedale, eighteen miles northeast of Chattanooga and three miles from Ooltewah off Interstate Highway 75.

An extension campus in Orlando at the Florida Hospital provides additional clinical facilities for the baccalaureate program of the Division of Nursing.

ACCREDITATION AND MEMBERSHIPS

SC is accredited by the Southern Association of Colleges and Schools and is approved by the Tennessee State Board of Education for the preparation of secondary, elementary, and early childhood teachers.

The curricula of both the Associate of Science degree program and the Bachelor of Science degree program in nursing, including Public Health Nursing, are accredited by the National League of Nursing as surveyed by the Collegiate Board of Review. The Division of Nursing is an agency member of the Department of Baccalaureate and Higher Degree Programs of the Division of Nursing Education of the National League for Nursing. It is also accredited by the Tennessee Board of Nursing and is recognized by the Florida State Board of Nursing.

The College is accredited by the Seventh-day Adventist Board of Regents and is a member of the Association of American Colleges, the American Council on Education, the Tennessee College Association, the American Association of Colleges for Teacher Education, the National Council of Accreditation for Teacher Education (NCATE), and the National Association for Schools of Music.

ACADEMIC PROGRAM

The academic program consists of ten divisions offering thirty-six majors and thirty-four minors in which students may qualify for the baccalaureate degree. Students may pursue programs of study leading to the Bachelor of Arts, Bachelor of Science, and Bachelor of Music degrees. Various pre-professional and terminal curricula are available to students wishing to qualify for admission to professional school and to those wishing to take a two-year terminal program of a technical or vocational nature.

SC STUDENTS

Approximately sixty percent of the students of SC come from the eight states comprising the Southern Union Conference of Seventh-day Adventists. However, most of the additional states and 25-30 foreign countries are also represented. Generally, the student group is fairly equally divided between men and women.

This Is SC

4

Former SC students are now serving in the ministerial, teaching, medical, and other services of the Seventh-day Adventist Church at home and abroad. Others are engaged in advanced study, business pursuits, government service, research activities, private and institutional medical services, and the teaching professions on all levels.

FACILITIES

Twelve buildings house the academic activities of the College.

Daniells Hall—Mathematics, Physics, Computer Science

Hackman Hall—Biology, Chemistry

Mazie Herin Hall—Nursing

Jones Hall—Art, English, men's dormitory

J. Mabel Wood Hall—Music

Ledford Hall—Industrial Arts

Lynn Wood Hall—Communications, History-Political Science, Instructional Media, Modern Languages, Office Administration, Religion, WSMC-FM

McKee Library

Physical Education Center—Physical Education

Student Center—Business Administration, Computer Center, Student Health Service, Cafeteria, Testing and Counseling Center, Campus Ministry Office, student activity rooms

Summerour Hall—Behavioral Sciences, Education

Wright Hall—Administration

Other facilities on or near campus serve student needs.

Collegedale Academy—secondary laboratory school

Collegedale Seventh-day Adventist Church

College Plaza—shopping center with businesses serving the college and community

Recreational Area—tennis courts, a track, a golf course, playing fields

Spalding Elementary School—laboratory school

Student apartments

Talge Hall—men's residence hall

Thatcher Hall—women's residence hall

Trailer park

WSMC-FM—a 100,000 watt stereo, non-commercial, educational radio station affiliated with National Public Radio, The Associated Press, and The Adventist Radio Network

Various auxiliary and vocational buildings house college industries and service departments.



STUDENT LIFE AND SERVICES

A college is not only classroom instruction, but also a mode of association. The effectiveness of the college program is enhanced if students develop their interests and meet their needs through participation in the nonacademic activities provided. Students are encouraged to take advantage of the facilities and opportunities planned for their cultural, social, and spiritual growth.

RESIDENCE HALL LIVING

Living in a college residence hall with its daily "give and take" prepares the student to meet life with equanimity, teaches respect for the rights and opinions of others, and offers a firsthand experience in adjusting to a social group.

To assure students this beneficial experience, the College requires those students who take more than three semester hours of classwork and who are unmarried and not living with their parents or other close relatives in the vicinity to reside in one of the residence halls.

REHABILITATION ACT (1973) Section 504: Services for Students with Special Needs

Southern College is dedicated to the elimination of architectural and prejudicial barriers which prevent any qualified person from attending. All applications are welcomed. Students who anticipate the need for special services are encouraged to arrange with the Admissions Office for a visit to the campus at which time the applicant will receive informa-

Student Life and Services

6

tion concerning all features of campus life and can share with the College officials any information pertinent to personal needs.

DINING

For the promotion of student health and enjoyment, SC provides a complete cafeteria service, organized to serve the students' needs. The spacious dining hall is an inviting center of social and cultural life at the College, and service by the cafeteria staff is available for the many student and faculty social functions. Auxiliary dining rooms are available for meetings of various student or faculty organizations.

HEALTH SERVICE

The Health Service is administered by a nurse director in cooperation with a college physician and the Dean of Students. The director uses the physician's standing orders and maintains regular office hours. The college physician holds regular clinic hours each weekday morning.

A fourteen-bed infirmary is provided and staffed in the evenings and at night on an on-call basis by live-in A.D. nurse graduates who are continuing for the B.S. degree.

The Health Service is available to all dormitory occupants and all students taking eight or more hours (three hours in the summer). The infirmary is available to all dormitory occupants. There is no charge for seeing a nurse or using the infirmary. There is a minimal charge to cover costs of equipment used in some treatments. Medications given are charged by the pharmacy.

All students taking eight hours or more are covered under the Student Accident and Sickness Insurance Plan. Spouses of students and those taking less than eight hours may purchase the plan. A policy brochure describing complete benefits and terms is given to each student at registration. In case of major illness, students may be referred to off-campus hospital facilities.

GUIDANCE AND COUNSELING SERVICE

During registration each student is assigned an academic adviser who will assist in program planning and give advice and guidance on academic questions throughout the school year. Students may also seek counsel concerning academic or personal problems from any member of the faculty.

Students with personal problems who wish assistance from a professional counselor should consult the Dean of Students or Director of Counseling Services. Personnel trained in psychology and counseling are available to those with serious social and personal problems.

The testing service works in close cooperation with the counseling service in providing guidance information to both students and coun-

selors. Students are urged to take advantage of the testing service as a means of obtaining information useful in choosing a profession or occupation.

ORIENTATION PROGRAM

SC has a personal interest in the success of the student desiring a college education. There is much that the student must do for himself in getting acquainted with the academic, social, and religious life of the College by perusing this bulletin and the *SC Student Handbook*. Instruction and counsel are given which will help the student better understand the college program and what is expected of him as a citizen of the college community.

Orientation for new freshman students is held prior to the opening week of the fall term. It includes examinations and instruction helpful in course planning. The student is introduced to the facilities, purposes, and functions of the College. Social occasions are also provided when students may meet faculty members and fellow students. All new freshman students are required to attend the orientation program.

STUDENT EMPLOYMENT SERVICE

Believing that systematic labor should constitute a part of the education of young people, SC encourages every student enrolled to organize his educational program on the study-work plan. Many part-time jobs are available in commercial, academic, and service areas of the College where students may work in order to pay a portion of their school expenses and acquire vocational skills. It is a policy of the College to give students first priority for jobs. If a student wants to work, is physically and emotionally able to work, and has arranged his class schedule to accommodate a reasonable work schedule, he should be able to obtain employment on campus. Students seeking employment should contact the Director of Student Finance. (See page 203 for more information.)

SENIOR PLACEMENT SERVICE

One of the personnel services of the College is that of assisting graduates in securing appointments for service. The Placement Service distributes information concerning senior students to a wide list of prospective employers. The Dean of Students serves as the liaison officer in bringing graduate and employer together.

STUDENT ASSOCIATION

Every student at SC who is taking eight or more semester hours of classwork is a member of the Student Association with voting privileges in the election of officers. Opportunities for leadership development and for cooperation in achieving the objectives of SC are afforded by the

Student Life and Services

8

Association. The Association assists the College administration and faculty in the implementation of policies and assumes responsibility in giving direction to campus activities entrusted to it.

The Association's activities are coordinated and communicated through the Student Senate and Cabinet and their several committees. The activities include the publishing of the weekly newspaper, *Southern Accent*; the yearbook, *Southern Memories*; the announcement sheet, *Campus Chatter*; and the student-faculty directory, *Joker*.

The activities and responsibilities of officers and the detailed organization of the Student Association are outlined in the *Student Association Constitution and By-laws*.

CAMPUS ORGANIZATIONS

Aside from the Student Association and its committees, more than thirty campus organizations provide opportunity for enrichment, leadership training, and enjoyment. They include church-related organizations—Campus Ministry, Ministerial Seminar, Collegiate Adventists for Better Living, and Literature Evangelists Club; clubs related to academic interests sponsored by the divisions; social clubs—Married Couples' Forum, Sigma Theta Chi, and Upsilon Delta Phi; and special interest or hobby clubs.

Students may join any of the clubs but must have a cumulative grade point average of 2.25 or a grade point average of 2.50 for the previous semester to hold any elected office.

CONCERT-LECTURE SERIES

Each year a concert-lecture series featuring distinguished artists, lecturers, and film travelogues is provided for students, generally on Saturday or Sunday nights. The cost of season tickets issued to students is partially included in the tuition.

FINE ARTS SERIES

To cultivate an appreciation for that which is elevating and beautiful in the fine arts, evening concerts by visiting musicians are sponsored by the Division of Music. Art exhibits by prominent artists are displayed in the McKee Library and in the Student Center and are open to the public.

STANDARDS OF CONDUCT

In harmony with the objectives of the College, high standards of behavior are maintained to encourage the development of genuine Christian character. Mature Christian students of sound spiritual and social integrity delight in standards that elevate and ennoble. Admission to SC is a privilege that requires the acceptance of and compliance with published and announced regulations. Only those whose principles and

interests are in harmony with the ideals of the College and who willingly subscribe to the social program as ordered are welcomed. It therefore follows that since students at Southern College receive an education subsidized by the Seventh-day Adventist Church, those who engage in activities designed to be detrimental to the church on or off campus will not be knowingly accepted or retained.

A student who finds himself out of harmony with the social policies of the College, who is uncooperative, and whose attitudes give evidence of an unresponsive nature may be advised to withdraw without specific charge. The use of tobacco or alcoholic beverages, the improper use of drugs, theatre attendance, card playing, dancing, profane or vulgar language, hazing, and improper associations are not tolerated.

Each student is expected to acquaint himself with the standards of conduct published in the SC Student Handbook. The handbook includes levels of social discipline and the appeal route. A copy may be obtained from the Dean of Student Affairs. Interim announcements of policies adopted by the faculty are of equal force with those listed in official publications.

CHAPEL AND WORSHIP SERVICES

In private parochial education it has been well known that elimination of residence halls convocations and all school convocations is the first step toward the separation of the school from its sponsoring church. Convocation exercises in the residence halls and for the entire student body serve educational and religious purposes. They also provide an element of unity which is one of the most desirable features of private education such as is found at Southern College.

The religious emphasis weeks and the weekend church services assist in the spiritual growth of the students comprising the college community. Students are required to attend these services regularly. Failure to do so will jeopardize the student's current status and readmission privileges.

ADMISSION TO SC

SC welcomes applications from students, regardless of race, sex, religion, color, or national origin, whose principles and interests are in harmony with the ideals and traditions of the College as expressed in its objectives and policies. Although religious affiliation is not a requirement for admission, all students are expected to abide by the policies and standards of the College as a Seventh-day Adventist institution.

PREPARATION FOR FRESHMAN STANDING¹

Applicants for regular admission as freshmen must have satisfied one of the following three conditions by the time of enrollment:

- A. Graduate from an approved secondary school, including the Home Study Institute, with a grade point average of at least 2.00 in major subjects.²
- B. Pass the General Education Development (GED) test and be eighteen years old by June 1 (prior to admission).
- C. Complete a minimum of eighteen secondary school units, fourteen of which must be in major subjects², with a minimum grade point average of 3.00 in the major subjects.

Applicants meeting none of these conditions will be considered on an individual basis.

Applicants for freshman standing are expected to have the following subjects in their secondary program:

1. Three units of English, excluding journalism and speech.
2. Two units of mathematics, including algebra.
3. Two units of science. A college class in biology, chemistry, or physics must be taken in addition to general education requirements if this condition is not met.
4. Two units of social studies. If one of these two units is not World History, HIST 174, 175, 364, 365, 374, 375, 376, 377, or 378 must be taken as part of the general education requirements.
5. Two units in a foreign language will be required for a B.A. degree effective July, 1983.
6. One unit in typing is strongly recommended.

¹Those planning to enter professions such as Nursing or Music Education should consult divisional admissions requirements.

²Bible, English, Mathematics, Natural Science, Social Science, and Foreign Language.

ADMISSION TO THE NURSING DIVISION

Students who wish to be admitted to nursing courses as freshmen or as transfer students should refer to the Nursing section of the CATALOG for admission requirements.

ADMISSION OF TRANSFER STUDENTS

Students wishing to transfer to SC from another accredited college or university must follow the same application procedure as other students. Transfer credits may be applied toward the requirements for a degree when the student has satisfactorily completed a minimum of twelve semester hours in residence. Credit by examination taken at other colleges will be accepted according to Southern College standards (see pages 33 and 34). A maximum of seventy-two semester hours may be accepted from a junior college. Background deficiencies revealed by transcripts and entrance examinations will be given individual attention. Credit will be granted for courses taken at institutions which are not regionally accredited only after the student has completed at least 16 semester hours at Southern College with a 2.00 or better average. Only those courses that are comparable to SC courses and for which the student has earned a "C" or better grade will be accepted. A student who has been dismissed from another institution because of poor scholarship or citizenship or who is on probation from that institution is not generally eligible for admission until he can qualify for readmission to the institution from which he has been dismissed.

ADMISSION OF SPECIAL STUDENTS

Mature individuals who do not meet the above college admission requirements and who do not wish to become degree candidates or otherwise-qualified students who may desire limited credit for transfer to another institution of higher learning may register as special students.

ADMISSION OF INTERNATIONAL STUDENTS

An international student making application to Southern College must have completed the equivalent of a United States high school (secondary) education. He is required to list only the institutions and dates attended on his application forms, but he will not be accepted to Southern College until the college has received original records or official copies of all his credits, degrees, diplomas and other credentials, with validation by school or national officials. These should be in the original language, accompanied by a translation (not an interpretation) in English, and certified by an American Embassy official if possible.

The Director of Admissions of Southern College will evaluate academic documents received for international students based on the recommendations found in the World Education series of booklets pub-

Admission to SC

12

lished by the American Association of Collegiate Registrars and Admissions Officers and *Patterns of Seventh-day Adventist Education*, published by the General Conference of Seventh-day Adventists.

Students from countries which administer the G.C.E. (General Certificate of Education) examinations must have earned five (5) or more "O" level academic subject passes (generally at one sitting, with marks 1 through 6 or A through D). Subjects must include English, a natural science, and three others selected from a second language, mathematics, science and social studies.

Proficiency in English, both written and oral, must be proven before admission. This may be done by taking the English Language Proficiency Test (ELI) or Test of English as a Foreign Language (TOEFL). Students whose test scores do not meet minimum standards will be required to enroll in ENGL 021, Basic American English. Southern College is not a bilingual institution.

In addition to the regular college expenses, there are other expenses for an international student.

1. A surety advance deposit of: \$500 for students from Inter- and Central America; \$750 for students from South America; \$1,000 for students from all other countries. This deposit must be placed in the college business office before the I-20 student visa form will be issued. It will be held until the student terminates study at Southern College, or it will be returned if the student does not enroll. This deposit is not part of the regular college expenses.
2. The student should be prepared to meet expenses for fees, books, personal items, and for periods of time when the college is not in session.

Southern College offers no financial aid to international students. The student must secure funds from other sources to meet his or her educational expenses. International students should realize that according to U.S. Immigration laws, overseas students are not permitted to work more than 20 hours per week and may not be employed except on the college campus.

It is important that an international student not leave his homeland until he or she receives an official letter of admission from Southern College. Such a letter will be issued only if the student's academic credentials are satisfactory, surety advance deposit has been made, and he is able to demonstrate his ability to finance his education at Southern College. Then his (Immigration) I-20 form will be issued.

When the student departs his homeland, he should have in his possession:

1. An admissions letter of acceptance from Southern College;
2. I-20 form;

3. A valid passport;
4. A valid visa to enter the United States;
5. Sufficient funds for the first year at Southern College (excluding the international surety deposit).

APPLICATION PROCEDURE FOR ADMISSION

- ▶ Prospective students should request application forms from the Office of Admissions.
- ▶ Completed applications, budget sheets, and medical forms should be returned to the Office of Admissions with an application fee of \$15 if the application is received at least six weeks before the beginning of the semester and \$20 if after that.
- ▶ It is the student's responsibility to request his former schools (high school and college) to forward his transcripts to the Office of Admissions in support of his application. These will become the property of the College. **NO TRANSCRIPT WILL BE ACCEPTED DIRECTLY FROM AN APPLICANT.**
- ▶ To permit a more effective program of counseling for admission, applicants who have earned fewer than twelve semester hours must submit scores from the American College Testing program (ACT). Test scores are valuable in determining ability to pursue a college program and in discovering areas in which the student may be deficient.
- ▶ Upon receipt and evaluation of the application, transcripts of credits, recommendations, and test scores, the Admissions Committee will notify the applicant of the action taken.

WHEN TO APPLY OR REAPPLY

New students are urged to submit applications not later than the last term of the senior year of high school. Applications submitted at the beginning of the senior year will sometimes enable the College to suggest ways of strengthening the student's preparation. Because of the difficulty sometimes encountered during the summer months in obtaining necessary transcripts, test scores, and recommendations, more time will be necessary for processing late applications.

Students in residence may submit re-applications without charge until April 30. Thereafter the regular application fee of \$15 will be required until July 15, after which the fee becomes \$20.



PROGRAMS OF STUDY DEGREES AND CURRICULA

PLANNING A COURSE OF STUDY

When planning for college, the student should consider in detail the course of study which will lead to his desired profession or occupation. If a firm decision about the choice of life work has not been made before entering college, a student may take a general program of study exploring several fields of knowledge during the freshman year. This approach need not result in loss of credits if carefully planned.

The College offers programs of study leading to the Bachelor of Arts, Bachelor of Science, Bachelor of Music, Bachelor of Business Administration, Associate of Science and Associate of Technology degrees, various pre-professional curricula, and two one-year occupational certificate programs.

When planning his course work, each student should acquaint himself with the programs of study and graduation requirements outlined in this CATALOG. Freshman students may consult faculty members during the summer months before the beginning of the fall term. Students planning to teach should consult the Division of Education and Human Sciences so as to include courses in teacher education as a part of their program in order to qualify for denominational and state certification.

Degree candidates are responsible for satisfying all degree requirements. A student may choose to meet the requirements of any one catalog in effect during the period of residency. If he discontinues for a period of twelve months or more, he must qualify according to a single catalog in force subsequent to his return.

GENERAL DEGREE REQUIREMENTS

The general degree requirements for a baccalaureate degree are as follows:

- ▶ Satisfactory make-up of admissions deficiencies. (See page 11).
- ▶ A minimum of 124 semester hours including 40 hours of upper division credits, with at least 18 upper division credits in the major for a Bachelor of Science degree and at least 14 for a Bachelor of Arts degree, with six in the minor, and a resident and cumulative grade point average of 2.00 (C) or above.* Students receiving the Bachelor of Science degree in Nursing or the Bachelor of Music degree will need 128 semester hours.

Programs of Study

16

- ▶ Completion of a major and minor (two majors accepted) for a B.A. degree or completion of a major for other degrees with a cumulative grade point average of 2.25 in the majors,* completion of the general education requirements, and electives to satisfy the total credit requirements for graduation. Courses completed with grades lower than a "C-" may not be applied on a major or minor. No course may fulfill the requirements of more than one major and/or minor.
- ▶ Completion of an undergraduate assessment examination.
- ▶ Students wishing to obtain a second degree will need to complete, beyond the 124 minimum hours required, a minimum of 30 hours, including 16 hours upper division, and a new major.
- ▶ Completion of three writing emphasis courses including one in the major field and one outside the major field.

The general degree requirements for an associate degree are as follows:

- ▶ A minimum of 64 semester hours and a resident and cumulative grade point average of 2.00 (C) or above. Nursing majors need 68 semester hours.
- ▶ Completion of a major with a cumulative grade point average of at least 2.00, the general education requirements, and electives to satisfy the total credit requirements for graduation. Courses completed with grades lower than "C-" may not be applied on a major.
- ▶ Students who have completed one associate degree and who wish to obtain another associate degree may do so upon completion of the curriculum prescribed for the second degree. The work completed for the second degree must include at least 24 hours in residence over and above the number of hours earned for the first degree. If the second associate degree is earned subsequent to the first associate degree, the requirements for the second degree will be governed by the provisions of the CATALOG in effect at the time the student re-enters the College for work toward the second degree.
- ▶ Students who wish to obtain an associate degree at the time they receive a baccalaureate degree may do so if the degrees are in different fields. If requirements for an associate and a baccalaureate degree in the same field are completed at the same time, only the higher degree will be conferred.

*A music major requires a grade point average of 2.25 in applied music and other music courses, calculated separately. Students wishing educational certification must have a grade point average of at least 2.5 in their majors. Elementary education majors must also have a grade point average of at least 2.25 in their required nonmajor subjects.

ONE-YEAR CERTIFICATE REQUIREMENTS

- ▶ A minimum of 32 semester hours which meet the requirements of a specific one-year program.
- ▶ A resident and cumulative grade point average of 2.00 (C) or above. Grades in the technical area below "C—" will not be accepted.

CLASS STANDING

Freshmen	0-23 semester hours
Sophomores	24-54 semester hours
Juniors	55-93 semester hours
*Seniors	94- semester hours

Eligibility for office requires an acceptable scholastic and citizenship record.

* A student may not be classified as a senior until he has filed a formal request with the Office of Records. All candidates for graduation must join the senior class organization and meet the nonacademic requirements voted by the class membership.

GRADUATION REQUIREMENTS

Degree Candidacy: A student may become a degree candidate when he enters upon the school term during which it will be possible to complete all requirements for graduation. Formal application for graduation must be made during the fall registration of the senior year. Students transferring to SC for the senior year must file a request at the time of registration. All resident candidates must be members of the senior class.

Dates of Graduation: The date of graduation will be (a) the date of commencement for those graduating at the close of each semester or (b) for others, the last day of the month in which graduation requirements are met, with the exception of the month preceding the month in which a commencement exercise is held when the date will be the actual date of the commencement.

Transcripts: Before a student will be allowed to graduate, transcripts of all correspondence and transfer credits must be received at the Office of Records.

Participation in Graduation Exercises: Students are allowed to participate in commencement exercises only if they have completed or are enrolled for all the courses they need for graduation and are making satisfactory progress in the courses for which they are enrolled two to three weeks prior to graduation.

In Absentia Policy: Seniors who are enrolled at Southern College during the semester in which the commencement exercise is held are to be present for the ceremony or an *in absentia* fee of \$30 will be levied.

Programs of Study

18

Deferred Graduation: A student is ordinarily allowed to graduate under the requirements of the CATALOG of the year in which he enters the College or of any subsequent year in which he is in attendance provided he does not discontinue attendance for twelve months or more. If a student who is studying for a baccalaureate degree fails to graduate within six calendar years (four years for an associate degree), he must reorganize his degree plan to conform to the current CATALOG. Time spent on active military duty is not considered a part of this allowed time.

RESIDENCE REQUIREMENTS

Baccalaureate Degree: Thirty semester hours of credit must be completed in residence immediately preceding the conferment of the baccalaureate degree. These hours must include 16 upper division, with eight in the major and three in the minor fields.

Associate Degree: Twenty-eight semester hours of credit must be completed in residence immediately preceding the conferment of the associate degree. Sixteen of these hours must be in the major area of study.

Certificate Programs: Eighteen semester hours of credit must be completed in residence immediately preceding the conferment of a one-year certificate.

Transfer Credit: Unless prior arrangements were made with the Academic Dean, the College will not accept transfer credit earned at another college or university during any session the student was simultaneously enrolled at Southern College.

UPPER DIVISION CLASSES

Students must complete forty semester hours of 100 and 200 level courses (lower division) before enrolling in a 300 or 400 level course (upper division). The English composition and mathematics requirements must be met before enrollment in upper division classes.

GENERAL EDUCATION

It is an awesome task to distill from the accumulated human experience those stories, histories, thoughts, and skills which can be transmitted in a classroom setting and at the same time contribute maximally and positively to the student's own experience. The choices are many, and competition for inclusion is intensive. Yet degree programs do necessitate a certain amount of structure, and so choices have to be made. Each division is allowed a great deal of freedom in choosing requirements for the major area of specialization. However, the faculty have chosen certain experiences, known as general education requirements, to which they feel all degree candidates should have some exposure.

Underlying all general education requirements are the basic academic skills of English and mathematics. Proficiency in these skills is essential to the transmission of much of the human experience.

The faculty of Southern College chooses without apology the religious experience as fundamental to a correct understanding of all of man's other experiences. The religious experience embodied in the teachings of the Seventh-day Adventist Church has been chosen to be transmitted to the students. It is recommended as enabling, enriching, and uplifting.

Because man builds his present and future upon the past, it is necessary that he have historical perspective. A society which allows its members a voice in shaping its political, social and economic institutions can survive only if these citizens are well versed in man's history and cognizant of man's experiences, past and present, with these institutions.

Language, literature, and the arts give expression to man's thoughts and feelings. Acquaintance with these modes of communication enriches one's life through more effective expression of his own thoughts and feelings and through better understanding and appreciation of the thoughts and feelings of others.

A study of the natural sciences develops in man an inquiring attitude toward his environment. It provides him with empirical and rational methods of inquiry and an awareness of both the potential and limitations of science and technology in solving man's problems.

Social units ranging from the individual through the family, church, communities, and nations exert a tremendous influence upon one's life. A study of those units and the conditions which affect them positively or adversely contributes to one's adjustment within his society and his opportunity to improve both himself and his society.

Creative, practical, and recreational skills provide man with exercise, relaxation, and a sense of well-being and accomplishment. These provide a wholesome and healthy diversion from heavy academic programs and from work responsibilities later in life.

GENERAL EDUCATION REQUIREMENTS

Semester Hours
Assoc. Bach.

AREA A. BASIC ACADEMIC SKILLS

All Area A courses must be completed before upper division work is undertaken. Upper division transfer students may take Area A requirements concurrently with upper division classes.

1. English

3-6 6-9

ENGL 099 is required of all students with

Programs of Study

20

	an English ACT score below 13, plus ENGL 101 is required for an associate degree and ENGL 101, 102 for a bachelor's degree.		
	2. Mathematics	0-4	0-4
	MATH 099 is required of all students with a Math ACT score below 12, plus MATH 103, 104, or 114 is required of all with a score below 22.		
AREA B.	RELIGION	6	12
	Transfer students must take 3 hours for each year or part thereof in attendance at an SDA college with a minimum of 6 hours. Bachelor's degree students must take at least three hours from each of the sub-areas.		
	1. Biblical Studies		
	All RELB courses.		
	2. Religion		
	All RELT courses. (Only one of RELT 317, 318, 325, 385, will apply.)		
AREA C.	HISTORY, POLITICAL AND ECONOMIC SYSTEMS		
	Students with less than one secondary school credit for World History must include one of the following: HIST 174, 175, 364, 365, 374, 375, 376, 377, or 378.		
	1. History	3	6
	All HIST courses.		
	2. Political and Economic Systems		3
	All PLSC courses; GEOG 204 (elementary education majors only); ECON 213, 224, 225, 324.		
AREA D.	LANGUAGE, LITERATURE, FINE ARTS	2	9
	Bachelor's degree students must include at least 2 hours in each of 3 sub-areas. Students entering SC after May 1, 1983, who have less than two secondary school credits of foreign language and who are pursuing a Bachelor of Arts degree must take a full year of beginning foreign language in college.		
	1. Foreign Language		
	FREN 101:102, 211:212; GRMN 101:102, 211:212; SPAN 101:102, 211:212, 344; REL 271:272, 311:312, 471:472.		

2. Literature
All ENGL literature courses except 444, 445; all GRMN and SPAN literature; MDLG 304.
3. Music and Art Appreciation
HMNT 205; MUHL 115, 314, 315; MURE 200 (Theology majors only); ART 218, 245, 246, 318, 345.
4. Speech
SPCH 135, 136, 236.

AREA E. NATURAL SCIENCE 3

Bachelor's degree students must take at least 3 hours from each of 2 sub-areas. Only one of the following may apply: BIOL 325, PHYS 317, 318. Students who have less than two secondary school units in science must take 3 hours of science above the usual requirements; e.g. associate degree students must take 6 hours and bachelor's degree students must take 9 hours.

1. Biology
BIOL 103, 105, 106, 125, 155:156, 205, 226, 227, 314, 325.
2. Chemistry
CHEM 111:112, 113:114, 151:152, 201:202.
3. Physics
PHYS 107, 155, 211:212, 213:214, 317, 318.

AREA F. BEHAVIORAL, FAMILY, HEALTH SCIENCES 2 5

Bachelor's degree students must include at least 2 hours in each of 2 sub-areas.

1. Behavioral Science
All PSYC courses except 326, 344; all SOCI courses except 223, 365; SOCW 221, 222; EDUC 216.
2. Family Science
HMEC 146, 147, 201, 202, 244, 349; BUAD 128, SOCI 223, 365.
3. Health Science
HLED 173, 203; FDNT 125; NRSG 204.

AREA G. ACTIVITY SKILLS 3 6

Associate degree students may take a

Programs of Study

22

maximum of 2 hours in any sub-area; bachelor's degree students may take a maximum of 3 hours in any sub-area. All students must take at least 1 hour from G-3.

1. Creative Skills

All MUPF courses; ART 104:105, 109, 110, 235, 236, 250, 251; ENGL 314; CRTF 112, 225, 237, 312.

2. Practical Skills

ACCT 103, 121:122; CPTR 101, 125, 217, 218; HMEC 164, 165, 166, 244, 345; FDNT 126, 127, 317; INDS 145, 149, 154, 155, 174, 175, 176, 177, 185, 255, 264, 265, 274, 323, 325; SECR 104, 105, 114, 115, 214, 218; AGRI 100; LIBR 125; all AVIA courses; CRTF 101.

3. Recreational Skills

All PEAC courses; PETH 261.

ADDITIONAL BACHELOR'S DEGREE REQUIREMENTS

1. Forty upper division hours.

2. Three writing emphasis classes. These classes are identified by a "(W)" following the course name, e.g., History of the South (W), in the divisional listings. One such class must be in the student's major field and one must be outside the major field.

HONORS PROGRAM

The honors program is designed for students who bring to their baccalaureate studies a high degree of motivation and intellectual curiosity. Special projects, interdisciplinary studies and designated honors courses provide a challenging and intellectually stimulating educational experience. Degrees of depth and breadth are attained in this experience beyond those normally attained in regular baccalaureate studies.

The program is administered by an honors committee. This committee admits students to the program and discontinues honors status of those who fail to maintain minimum program standards. It assigns advisors to honors students and continually monitors the progress of students in the program.

A student desiring admission to the honors program must submit an application to the academic dean. A freshman is eligible to apply during his first semester of college if he has a high school GPA of 3.70 or higher.

Other applicants must have completed at least thirty-one and at most sixty-two semester hours with a cumulative GPA of 3.50 or higher. Application forms are available in the academic dean's office. He forwards applications to the honors committee for consideration.

To remain in the honors program students must enroll for a minimum of twelve credits each semester and thirty-one credits each calendar year. They must also enroll in appropriate honors sequence courses, receive a grade of B (3.00) or higher in each honors sequence course and maintain a minimum cumulative GPA of 3.50. All honors students are expected to graduate within a four-year period unless extenuating circumstances justify an extension by the honors committee.

Ordinarily, all courses of the honors sequence must be taken in residence. Limited exceptions may be made by the honors committee in the case of transfer students. Students already enrolled at Southern College who wish to take classes at another institution must secure prior approval from the honors committee.

HONORS STUDIES SEQUENCE

- A. Core program 13 hours
 1. Major project 3 hours
A project demonstrating expertise in the student's major field. Directed study, research, writing, special performance, appropriate to the major in question. The honors committee expects the project to be of sufficiently high quality to justify public presentation.
 2. Secondary project 3 hours
A project similar to the Major project but not in the student's major field. Special projects, performance, or directed study, demanding intellectual breadth by emphasizing skills outside the major.
 3. Interdisciplinary studies 7 hours
Two classes in interdisciplinary studies.
Required:
HMNT 205, Western Man Through the Arts
One of the following:
BIOL 325, Issues in Natural Science and Religion
PHYS 317, Issues in Physical Science and Religion
PHYS 318, Issues in Physical Science and Religion
PSYC 385, Religious Psychology
 4. Honors Seminar No Credit
A sequence of eight lectures, one each month, September through April, taken during the junior or senior year.

Programs of Study

24

B. General Education

Honors students must meet regular general education requirements with the following additions:

1. Area B2. One of the following courses must be selected: BIOL 325, PHYS 317, PHYS 318, PSYC 385.
2. Area D1. Foreign language competency must be attained at the intermediate level.
3. Area D2. One of the following courses must be selected: ENGL 445, INST 304.
4. Area D3. HMNT 205 must be selected.
5. Area E. Math 115 or Math 215 and one of the following science sequences must be selected: BIOL 155, 156; CHEM 211:212; PHYS 211:212, 213:214.

These general education requirements may be altered slightly for a limited number of academic majors.

GRADUATION WITH HONORS

Students graduating with a cumulative GPA of 3.50 or above but who do not participate in the honors program will be designated as *cum laude* graduates. This designation also applies to graduates from associate degree programs having a cumulative GPA of 3.50 or above. Students completing the honors program with a GPA of 3.50 to 3.74 will be designated *magna cum laude*; those with a GPA of 3.75 or above in the honors program will be designated *summa cum laude*. The appropriate designation will appear on the diploma.

DEAN'S LIST

Students who carry a minimum of twelve semester hours and attain a grade point average of 3.50 or above for two consecutive semesters in residence are listed on the official Dean's List.

MAJOR AND MINOR REQUIREMENTS

SC offers 36 majors and 31 minors for students wishing to qualify for a baccalaureate degree. Each major consists of thirty hours or more in the chosen field of specialization of which a minimum of eighteen for a Bachelor of Science degree and fourteen for a Bachelor of Arts degree must be upper division credit. The total semester hours required for each major for the Bachelor of Science and Bachelor of Music degrees varies with the field of specialization chosen.

All minors consist of eighteen semester hours. Six hours of a minor must be upper division credit.

The specific requirements for majors and minors are given under the

respective disciplines in the section "Divisions and Courses of Instruction." No class may fulfill both major and minor requirements.

BACHELOR DEGREE PROGRAMS

Seventeen majors for the Bachelor of Arts degree are offered:

Art	History
Biology	International Studies
Chemistry	Mathematics
Communication	Music
English	Physics
French	Psychology
German	Religion
Health, Physical Education and Recreation	Spanish
	Theology

Sixteen majors for the Bachelor of Science degree are offered:

Art	Health Science
Behavioral Science	Home Economics
Business Administration	Industrial Education
Business Education	Long-Term Health Care
Biology	Mathematics
Chemistry	Medical Technology
Computer Science	Nursing
Elementary Education	Physics

The Bachelor of Business Administration degree is available to students who are planning for a professional career in business. Majors are available in Accounting and Management. Detailed requirements are outlined under the Division of Business and Office Administration.

The Bachelor of Music degree is available to students planning to major in music with special emphasis in music education. The detailed requirements for this professional degree are outlined under the Division of Music in the section "Divisions and Courses of Instruction."

Minors are offered in most majors and emphases as well as the following:

Practical Theology	Foods and Food Service
Biblical Language	Library Science
Fields Related to English Education	

ASSOCIATE DEGREE PROGRAMS

Southern College offers the following twelve associate degrees:

Accounting	Home Economics
Allied Health	Industrial Technology
Child-Care Administration	Long-Term Health Care

Programs of Study

26

Computer Science
Construction Technology
Food Service Technology

Media Technology
Nursing
Office Administration

Complete details of course requirements for the associate degrees are outlined in the descriptions in the bulletin section "Divisions and Courses of Instruction."

ONE-YEAR CERTIFICATE PROGRAMS

The College has one-year certificate programs in the following areas:

Auto Body Repair (Industrial Education)

Food Service Production (Home Economics)

Requirements for these programs are given in the appropriate divisional sections of this CATALOG.

PRE-PROFESSIONAL CURRICULA

SC offers pre-professional and pre-technical programs in a wide variety of fields which may prepare students for admission to professional schools or to enter upon technical careers. Below are listed the pre-professional curricula offered at SC.

Anesthesia
Dental Hygiene
Dentistry
Dietetics
Engineering
Law
Medical Record
Administration
Medicine

Occupational Therapy
Optometry
Osteopathic Medicine
Pharmacy
Physical Therapy
Public Health Science
Radiology Technology
Respiratory Therapy
Veterinary Medicine

An A.S. degree in Allied Health is available to students who spend two or more years at SC while fulfilling pre-professional requirements in an allied health field. Pre-professional and technical admission requirements may vary from one professional school to another. The student is, therefore, advised to become acquainted with the admission requirements of the chosen school.

Detailed requirements for the pre-professional curricula are outlined in the section on "Pre-Professional Curricula."



ACADEMIC INFORMATION

REGISTRATION

Students are expected to register during the scheduled registration periods designated in the school calendar. The registration process is complete only after all procedures have been met and registration forms are returned to the Office of Records. Freshmen are required to participate in the orientation activities.

Late Registration. Permission to register late must be obtained from the Director of Records. Students failing to register during the scheduled registration periods will be assessed a late registration fee of \$20.00. The course load of a late registrant will be reduced by one to two semester hours for each expired week of instruction. No student should expect to register after two weeks of the semester have elapsed.

Changes in Registration. To avoid changes in registration the student should carefully consider the program of courses necessary to meet his objectives. To avoid subsequent adjustments, a balance should be maintained between the course load, work program, and extracurricular activities.

To make program changes the student must obtain the appropriate change of registration voucher at the Office of Records. After obtaining the necessary signatures indicating approval of the change, the student

Academic Information

28

must return the form to the Office of Records. Course changes and complete withdrawals from the school become effective on the date the voucher is filed at the Office of Records. A fee of \$7.00 will be assessed for each change in program the first week of instruction.

A student may not change from one course section to another without the approval of the instructor and the Director of Records.

A student may withdraw from a class up to two weeks after mid-term and receive a grade of "W" automatically. A student withdrawing from a class after that up to two weeks before the last day of classes will be assigned a grade of "W" or "WF" by the teacher. The grade for any withdrawal after that will automatically be "F."

Auditing Courses. With the approval of the division, a student may register on an audit basis in courses (other than private lessons) for which he is qualified. Auditors are to be admitted to classes of limited enrollment only if there are places after all students who wish to enroll for credit have been accommodated. Class attendance is expected but examinations and reports may be omitted. With the approval of the instructor, a student may change a course registration from audit to credit or from credit to audit during the first week of instruction only. No credit is given for courses audited, and the fee is one-half of the regular tuition charge.

COURSE LOAD

College courses are expressed in semester hours at Southern College. A semester hour consists of one fifty-minute class period per week for one semester. Thus, two semester hour classes meet two hours a week and three semester hour classes meet three hours a week. A laboratory period of two and one-half to three hours is equal to one class period. Students should expect to study between one and one-half and two hours outside of class for each fifty minute period the class meets. Thus a sixteen semester hour class load should require forty or more hours of study each week on the part of the student. Except by permission of the Academic Dean, a student may not register for more than eighteen or less than eight semester hours.

To qualify for a baccalaureate degree in four years, a student must average between fifteen and sixteen hours per semester. The summer term may be used to advantage by students wishing to complete degree requirements in less than four years or by students having to take reduced programs of studies during the regular academic year.

Study-Work Program. It is exceedingly important that the student adjust the course load to achieve a reasonable balance in study and work. During registration the student should confer with his adviser in planning the proper balance of study and work. In determining an acceptable study-work program, the following will serve as a guide.

Course Load	Maximum Work Load
16 hours	16 hours
14 hours	20 hours
12 hours	26 hours
10 hours	32 hours
8 hours	38 hours

FULL-TIME STUDENT

Students enrolled for twelve or more semester hours and students in the last semester of their senior year who are taking all the courses required for graduation (but no fewer than eight semester hours) will be classified as full-time students according to the standards and practices of the College. The completion of nine or more semester hours will constitute full-time enrollment for the summer. Students receiving financial aid should consult the Student Finance Office for the definitions of a full-time student set up by the various agencies which offer aid.

GRADING SYSTEM

Mid-semester and semester grade reports are issued to the student and his parent or guardian (if authorized by the student). Only semester grades are recorded on the student's permanent record at the College.

The following system of grading and grade point values is used:

A 4.0 grade points per hour	D 1.0 grade points per hour
A- 3.7 grade points per hour	D- 0.7 grade points per hour
B+ 3.3 grade points per hour	F 0.0 grade points per hour
B 3.0 grade points per hour	W Withdrawal
B- 2.7 grade points per hour	WF Withdrew Failing
C+ 2.3 grade points per hour	(0.0 grade points per hour)
C 2.0 grade points per hour	AU Audit
C- 1.7 grade points per hour	I Incomplete
D+ 1.3 grade points per hour	

A student may receive an "I" (incomplete) because of illness or other unavoidable delay. A student who believes he is eligible for an incomplete must secure from the Office of Records the proper form on which he may file application with the Academic Dean to receive an incomplete. **Any incomplete which is not removed by the end of the following term (Fall, Spring, Summer) will automatically become an "F."**

A course in which the student received a grade of "C," "D," or "F" may be repeated before he takes a more advanced course in the same field. Only the last grade will be counted on repeated courses. No course may be repeated more than once without permission from the Academic Dean.

Academic Information

30

The grade point average may be calculated by dividing the total number of grade points earned by the hours attempted.

ACADEMIC PROBATION AND DISMISSAL

When for any reason a student's SC or cumulative grade point average falls below 2.00, he will be placed on academic probation and restricted from holding office in any student organization or being a member of any touring group sponsored or approved by the College. Those on academic probation will not be allowed to participate in academic activities causing class absences and will not be allowed to participate in on or off campus extracurricular activities including fire department duties.

Any senior with a grade point average of less than 2.25 in his major will also be placed on academic probation.

Transfer students should have a grade point average of at least 2.00 in order to be eligible for admission to Southern College.

A student admitted to SC in good standing or on academic probation will be subject to dismissal if, at the close of the school year, his SC or cumulative grade point average fails to reach the levels indicated below. A student who, because of extenuating circumstances was admitted even though subject to academic dismissal, must reach the levels shown in order to be eligible to continue at SC the second semester.

Semester Hours Attempted	G.P.A. Dismissal Level
Up to 48	1.50
49-64	1.65
65-80	1.75
81-93	1.85
94-up	1.95

Beginning freshmen will be allowed to attempt 23 semester hours over a maximum period of two semesters before being subject to dismissal. Candidates for the Associate of Science degree must have a grade point average of at least 1.95 before being accepted for their final year and at least 2.00 to graduate.

A student academically dismissed may not be readmitted until two sessions (for this purpose the summer is counted as one session) have elapsed. Eligibility for readmission shall include successful college-level work taken in another institution or other evidence of maturity and motivation.

In order to be eligible for financial aid for the school year, a student's SC and cumulative grade point average for the preceding year must have been above the dismissal level and he must have made satisfactory academic progress in at least 75% of the hours required for aid, excluding repeated courses. Incomplete and failing grades and withdrawals are not considered satisfactory progress.

RIGHT OF PETITION

A student who believes there is a valid reason for requesting variance from or exception to an academic policy stated in the CATALOG may make a petition to the Academic Dean for consideration of his case after obtaining the advice and signature of the head of his major division. The petition must contain a statement of the request and supporting reasons. The student will be notified in writing by the Academic Dean of the action on the petition within five working days of receiving the petition. Petition forms are available from the Records Office information desk in Wright Hall.

GRIEVANCE PROCEDURE

A student who believes that his academic rights have been infringed upon or that he has been treated unjustly with respect to his academic program is entitled to a fair and impartial consideration of his case. The student should do the following to effect a solution.

1. Present his case to the teacher or teachers concerned.
2. If necessary, discuss the problem with the division chairman.
3. If justice has not been attained at this level, submit the matter to the Academic Dean.
4. Finally, ask for a review of the case by the Grievance Committee, chaired by the Academic Dean or his designee and including three other faculty members and two students selected by the Academic Affairs Committee. Both the student and the teacher involved in the case are entitled to appear before the committee or to present a written statement of the case. The decision of the committee shall be presented in writing to the individuals involved within three days of the committee meeting unless a later time is agreed upon by both parties. The decision of the committee is binding and will be implemented by the teacher involved or the Academic Dean.

ABSENCES

Class. Attendance at class and laboratory appointments is required. Absences are dealt with in two ways. Teachers may excuse absences themselves or ask their students to submit excuses to the Absence Committee. Students are told at the beginning of each semester which of the two means will be used in the class.

Generally speaking, absences will not be excused by either a teacher or the Absence Committee for reasons other than illness, authorized school trips, or emergencies beyond the student's control. Absences due to illness are not normally excused unless the student contacts Student Health Service prior to the absence. Non-emergency medical appointments must be scheduled around the class program.

Academic Information

32

For classes in which the Absence Committee is used, a completed absence excuse form (one for each class) must be placed in the absence box, located in the Student Center, no later than noon the first Monday following the absence. Absence forms are available at the Student Center, library, switchboard, and resident halls. The Absence Committee will determine whether or not to excuse the absence and notify the teacher of its decision.

Students having absences exceeding in number* twice the number of course credit hours (six absences for a three-hour credit course) may, at the teacher's discretion and after consultation with the academic dean, be dropped from the class.

Make-up work is not normally allowed in the case of homework or quizzes missed due to absences. Teachers have the option of recording homework and quiz averages if the absence is excused. Tests and major assignments missed because of excused absences are made up as arranged with the teacher.

Examination. Because of problems concerning time, expense and fairness, final examinations are rarely rescheduled. Students desiring to reschedule final examinations must obtain a request form from the Records Office in Wright Hall, fill it out completely, make two additional copies and submit all three copies to the teacher involved. The teacher will approve or deny the request, return one copy to the student and send one to the academic dean. If approved, the rescheduled examination will be given at a time convenient to the teacher and a fee of \$25 per examination will be assessed. The \$25 fee will be waived in cases of illness verified by Student Health Service or a physician, death in the immediate family, or four or more examinations scheduled for one day.

Chapel. The chapel service is provided for the spiritual and cultural benefit of the college family, to promote the interests of SC, and to develop and conserve a spirit of campus unity. In essence the chapel attendance policy is the same as for class attendance in that no absences are permitted except for illnesses, authorized school trips, or emergencies. An excuse must be presented at the Dean of Students' office within 48 hours after the absence. It is the responsibility of each student to keep track of his chapel absences. A student is allowed four unexcused absences from chapel per semester. Additional unexcused absences can result in a student being placed on Citizenship Probation. A continued absence problem can disqualify a student from attending Southern College. A satisfactory chapel attendance record is required for readmission to SC.

* One and one-half absences are given for missing a 75-minute class, two for missing a 100-minute class, etc.

WAIVER EXAMINATIONS

Upon the approval of the division chairman and the Academic Dean, a student may obtain a waiver of curricular requirements by successfully completing a comprehensive examination—written, oral, manipulative, or otherwise, as determined by the division involved. A fee of \$25 per examination is charged.

NONTRADITIONAL COLLEGE CREDIT

In addition to credit earned in the traditional classroom setting, Southern College accepts credit earned by two other means—challenge examinations and correspondence courses.

The goals and objectives of the College emphasize not only facts and concepts but also values and attitudes which are not easily transmitted through correspondence courses or measured by examinations. These values and attitudes can best be developed by the student's interacting over a period of time with peers and teachers committed to moral excellence, critical thinking, and the pursuit of truth. For this reason, most college credits should be earned through class participation. However, the College will permit a maximum of one-fourth of the credit required for a given degree to be earned by these nontraditional means.

College Credit by Examination

The College recognizes three types of challenge examinations: those prepared by a division which must be passed at "B" level or above, approved College Level Examination Program (CLEP) subject examinations which must be passed at the 65th percentile or above, and the Advanced Placement Examinations which must be passed with a score of three or better. A student may challenge a given course by examination only once. No course may be challenged after the student has enrolled in that course beyond the second week of a semester. **No course may be challenged as part of the last thirty hours of any degree.** Grades are recorded for divisional challenge examinations and scaled scores are recorded for nationally normed examinations. Permission to take a challenge examination while in residence must be obtained from both the division chairman and the Academic Dean.

Credit for challenge and/or validation examinations will not be placed on a student's permanent record and is, therefore, not transferable until that student has successfully completed twelve semester hours in residence at Southern College.

Fees charged for challenge examination and credit are listed under "Special Fees and Charges" in the financial section of this CATALOG.

Additional information concerning challenge examinations may be obtained from the Office of Admissions or the Counseling and Testing Center.

Academic Information

34

Correspondence

A maximum of twelve semester hours of correspondence or extension credit may apply toward a baccalaureate degree program and eight hours toward an associate degree.

The Home Study Institute of Washington, D.C., is the officially recognized correspondence school of Southern College. The College recommends the Home Study Institute for those students needing correspondence credit and accepts all such credits when the study program is approved by the Academic Dean prior to enrollment.

A student will be permitted to carry correspondence work while in residence only if the required course is unobtainable at the College. Correspondence courses, whether taken while in residence or during the summer, must be approved in advance by the Academic Dean.

Correspondence work may not apply on the upper division requirements of the major or minor. A minimum grade of "B" must be earned to apply on the lower division requirements for a major. Correspondence credit with a "D" grade is unacceptable and a course in which the student earned a grade of "D" or "F" while in residence may not be repeated by correspondence. No correspondence credit will be entered on the student's record until he has earned a minimum of twelve hours in residence with an average of at least "C." Official transcripts must be in the Office of Admissions and Records before a diploma will be ordered. The graduation date will be the last day of the month after the official transcript is received.

TRANSCRIPTS

Official transcripts of a student's academic record may be obtained by the student upon a written request to the Office of Admissions and Records. The request must include the student's signature and payment of \$2.00 in cash, check, or money order for each transcript ordered. Because of legal difficulties, telephone requests from students or written requests from other members of the student's family cannot be honored.

A student may receive an unofficial transcript for evaluative purposes without charge by applying in person at the Office of Admissions and Records. Official transcripts given directly to a student will be stamped "Student Copy." No transcript will be issued for a student whose account is not paid in full or who is delinquent in payment of student loans. **No exceptions will be made.**

SEQUENCE OF COURSES

A student may not receive credit for a course which is prerequisite to a course for which he has already received credit.

DIVISIONS AND COURSES OF INSTRUCTION

COURSE NUMBERS

Each course number consists of three figures as follows:

(a) The first numeral will indicate class year status as follows:

- 0 — remedial (Institutional credit only)
- 1 — freshman level
- 2 — sophomore level
- 3 — junior level
- 4 — senior level

(b) The second numeral indicates the following:

- 1 — shows that there are prerequisites for the course
- 9 — shows that the course is independent study, project, or research type

0 and 2-8 — no designation

(c) The third numeral indicates the following:

- 1 — signifies a course which is first in a sequence
- 2 — signifies a course which is second in a sequence and presupposes one as a prerequisite

All other figures have no designation.

Within a given 100 sequences there is no necessary significance in one course number being higher than another. For instance, 265 does not necessarily mean that the course is on a higher level than 235.

Course numbers that stand alone represent courses of one semester which are units in and of themselves. Course numbers separated by a comma represent units in and of themselves, either one of which may be counted for graduation without reference to sequence.

Course numbers separated by a colon are year courses in which credit for the first course is a prerequisite to the second. However, credit may be given for the first semester when taken alone.

Upper division courses are numbered 300 and above.

DIVISIONAL ABBREVIATIONS

ACCT	= Accounting (Business and Office Administration)
AGRI	= Agriculture (Biology and Chemistry)
ART	= Art (Arts and Letters)
AVIA	= Aviation (Industrial Education)
BHSF	= Behavioral Science Foundations (Education and Human Sciences)
BIOL	= Biology (Biology and Chemistry)
BUAD	= Business Administration (Business and Office Administration)
CHEM	= Chemistry (Biology and Chemistry)
CNST	= Construction Technology (Industrial Education)
CPTR	= Computer Science (Mathematical Sciences)
CRTF	= Communication, Radio, Television, Films (Arts and Letters)
ECON	= Economics (Business and Office Administration)
EDUC	= Education (Education and Human Sciences)
ENGL	= English (Arts and Letters)
FDNT	= Foods and Nutrition (Education and Human Sciences)
FREN	= French (Arts and Letters)
GEOG	= World Geography (Arts and Letters)
GRMN	= German (Arts and Letters)
HIST	= History (Arts and Letters)
HLED	= Health and Life Education (Health, Physical Education, Recreation)
HMEC	= Home Economics (Education and Human Sciences)
HMNT	= Humanities (Arts and Letters)
INDS	= Industrial Education
JOUR	= Journalism (Arts and Letters)
LIBR	= Library (Education and Human Sciences)
MATH	= Mathematical Sciences
MDLG	= Modern Language (Arts and Letters)
MUCT	= Music Theory
MUED	= Music Education
MUHL	= Music History
MUPF	= Music Performance
MURE	= Church Music
NRSG	= Nursing
PEAC	= Physical Education Activity Courses (Health, Physical Education and Recreation)
PETH	= Physical Education Theory (Health, Physical Education and Recreation)
PHYS	= Physics (Mathematical Sciences)
PLSC	= Political Science (Arts and Letters)
PSYC	= Psychology (Education and Human Sciences)

RELB = Religion-Biblical Studies
 RELL = Religion-Biblical Languages
 RELP = Religion-Applied Theology
 RELT = Religion-Theory
 SECR = Secretarial (Business and Office Administration)
 SOCI = Sociology (Education and Human Sciences)
 SOCW = Social Work (Education and Human Sciences)
 SPAN = Spanish (Arts and Letters)
 SPCH = Speech (Arts and Letters)

DIVISION OF ARTS AND LETTERS

Chairman: Robert Morrison

Art

Robert Garren
Charles Zuill

Communication

Frances Andrews
Don Dick
Frank DiMemmo
Clyde Garey
Jerry McGill
David Smith
William H. Taylor

English

Frances Andrews
Ann Clark
Clyde Garey
Jan Haluska
Wilma McClarty
Lorabel Midkiff
Barbara Ruf
David Smith
William H. Taylor

History

Floyd Greenleaf
Benjamin McArthur
Brian Strayer
William Wohlers

Humanities

Selected faculty

Modern Languages

Robert Morrison

Programs

The Division of Arts and Letters is an academic unit of Southern College offering programs of studies in five fields: Art, Communication, English, History, and Modern Languages. Some of these are subdivided into emphases. These programs involve two-year degrees, minors, teaching endorsements, and overseas study. The following table indicates the programs available and the page where the details are presented.

PROGRAMS

Field	Four Year B.A.	Prog. B.S.	Two Year A.S.	Minor	Teaching Endorse- ment	Over- seas study	For details see page
1. Art	*			*	*		41
a. Communication Design		*					41
b. Painting		*					43, 44
c. Ceramics		*					43
Drawing, Printmaking		*					43, 44
2. Communication				*			45
a. Radio-TV-Film	*			*			47
b. Journalism	*			*			49
c. Speech	*			*			50
d. Media Technology			*				50
3. English	*			*	*	*	51
4. History	*			*	*	*	56
5. Modern Languages							61
a. French	*			*	*	*	63
b. German	*			*	*	*	64
c. Spanish	*			*	*	*	64
d. International Studies	*						61
Overseas Study							40

Degree Requirements

Students majoring in any of the fields in the Division of Arts and Letters must adhere to these requirements:

1. Specific program requirements explained in the departmental sections listed above.
2. General Education program spelled out on pages 18-22.
3. Requirement applicable to all B.A. degrees in the Division of Arts and Letters: Foreign language at the intermediate level. Majors in Radio-TV-Film, Journalism, and Speech may substitute six hours of computer language for the intermediate level. Applicable CPTR courses are: CPTR 125 and 218 or 318. Application of this requirement will begin with new students entering after the 1982-83 school year.

Overseas Study

The Division of Arts and Letters encourages its students to engage in a year of study outside the United States. Majors in English, History, and Modern Language will especially benefit from these intellectually stimulating and culturally broadening experiences. Earned credit will apply to majors and general education. Financial and academic details

about overseas study programs are available in the Modern Language office. In order to allow maximum transfer of credit the Division recommends only overseas colleges approved by Southern College. To facilitate transfer of credit students must counsel with their major professor before arranging for overseas study.

1. **Modern Language.** Students may earn a major or minor in French, Spanish, or German by attending the appropriate college in France, Austria, Mexico, or Spain, or other approved colleges.
2. **English.** Students majoring in English will benefit from a year at Newbold College, England.
3. **History.** History majors will enhance their programs with a year at Newbold College or an approved college overseas.

HUMANITIES

HMNT 205. Western Man Through the Arts (D-3)

4 hours

A cultural appreciation class integrating leading movements in art, literature, and music as forms of intellectual comment about society and expressions of human aspirations, also showing the historical evolution of the philosophical moods of the western world. Besides attending lectures, students may also participate in activities involving the art forms under consideration. Team taught. (Spring)

ART

Major: Thirty hours for the Bachelor of Arts degree including ART 104:105; 109, 110; 245, 246, 345, 347, 499, with not less than 14 hours upper division. Cognate requirements: CRTF 225. A foreign language at the intermediate level is required.

Major: Forty-five hours for the Bachelor of Science degree including ART 104:105, 109, 110, 245, 246, 345, 347, 499, with not less than 18 hours upper division and the completion of an area of specialization.

Areas of Specialization:

Communication Design. Required courses: 221, 222, 250, 251, 313, 314 and six credits in Directed Study in Communication Design. Cognate requirements: CRTF 225, 237, 312, 313, BUAD 326, and INDS 145.

Studio Specializations. Required courses: Twelve hours within one of the following areas: Painting, Drawing and Printmaking, Ceramics. Cognate requirements:

Ceramics

Painting

Drawing & Printmaking

CHEM 111

CRTF 225

CRTF 225, INDS 145

Minor: Eighteen hours including courses 104:105; 109:110; 346, with not less than six hours in upper division courses.

Teaching Endorsement:

ART 104, 105	Beginning Drawing I, II	4 hours
ART 109, 110	Design I, II	6 hours
	Art techniques elective	2 hours
ART 245, 246	History of Art	4 hours
	Art appreciation elective	2 hours
	Art electives	6 hours
	TOTAL	24 hours

ART 104:105. Beginning Drawing I, II (G-1) 2,2 hours
An introductory course in drawing, composition, and design. Emphasis on the basic art elements and their functions in composition using various media. (Fall, Spring)

ART 109, 110. Design I, II (G-1) 3,3 hours
Problems in two- and three-dimensional art, dealing with line, shape, form, color, and texture. (Fall, Spring)

ART 215. Sculpture (G-1) 3 hours
Prerequisite: ART 104:105 or permission of instructor.
Introduction to the problems of form in sculpture and three-dimensional design using various media such as clay, plaster, wood, and metal casting. Taught odd years. May be repeated for credit. (Fall)

ART 217. Printmaking I 3 hours
Prerequisite: ART 104:105 or permission of instructor.
A course designed to give the art major experience in printmaking media. Relief, intaglio, and silk-screen will be covered. May be repeated for credit. (Fall)

ART 221:222. Painting I, II 3,3 hours
Prerequisite: ART 104:105 or permission of instructor.
A course designed to give the student experience in using painting materials applied to compositional organizations. May be repeated for credit. (Fall, Spring)

ART 235. Ceramics I (G-1) 3 hours
Fundamentals of the preparation and use of clay. Methods of fabrication from hand building to wheel-thrown wares, chemistry and application of glazes, and stacking and firing of kilns. May be repeated for credit. (Fall)

ART 236. Weaving (G-1) 3 hours
A design course dealing with the study of weaving techniques and materials. Creative exploration on and off the loom using pattern, color, and texture is stressed. May be repeated for credit. (Spring)

ART 250, 251. Design for Visual Communications (G-1) 3,3 hours

A course dealing with advertising design, illustration, typography, graphic design or photography for the designer. Courses are developed to give students experiences much like those he will encounter as a professional designer. (Fall, Spring)

ART 311, 312. Painting III, IV 3,3 hours

Prerequisite: ART 221 or permission of instructor.

Advanced problems in painting. May be repeated for credit. (Fall, Spring)

ART 313, 314. Drawing III, IV 3,3 hours

Prerequisite: 104, 105 or permission of instructor.

A course designed to give the student increased experience in the application of drawing media to the production of art. This course may be repeated for credit. (Fall, Spring)



ART 320. Ceramics II **3 hours**

Prerequisite: ART 235 or permission of instructor.

Advanced problems in ceramics. May be repeated for credit. (Spring)

ART 323. Printmaking II **3 hours**

Prerequisite: 2 semesters of ART 217 or permission of instructor.

Advanced problems in printmaking. May be repeated for credit. (Spring)

ART 493. Internship in Art **2-4 hours**

An intern program for advanced art majors selected and supervised by the Art faculty for experience on the job with participating firms or institutions.

ART 295/495. Directed Study (W) **1-3 hours**

For students electing to take ART 295, permission of the teacher must be obtained. ART 495 is for majors and minors only. The course is designed for students who wish directed study or for a group of students who wish a special course not taught under the regular class offering. Students taking the class as directed study may choose from art history, ceramics, design, drawing, painting, printmaking, sculpture, visual communication and weaving. (Students must have had maximum classes offered in area.) This course also includes credit offered by the Art Department on directed study tours. May be repeated for credit up to four times. Writing emphasis for ART 495 only.

ART 499. Senior Project **1 hour**

Major projects in area of interest for seniors and preparation of permanent portfolio of college art work. (Spring)

ART HISTORY

ART 218 or 318 (D-3), (W). Art Appreciation **2 hours**

Lecture and travel seminar. A weekly lecture will be presented to prepare the students for the Art Appreciation trip. Students will spend Thanksgiving vacation visiting major art museums in New York City. Trip summary paper is required. Writing emphasis for ART 318 only. (Fall)

ART 245, 246. History of Art (D-3) **3,3 hours**

A study of the arts of western civilization from antiquity to the present with an emphasis on pivotal figures in art history. (Fall, Spring)

ART 345. Contemporary Art (D-3), (W) **3 hours**

Nineteenth and twentieth century developments in European and American arts. (Fall, Spring)

ART 347. Introduction to Philosophies of Art **3 hours**

An introduction to aesthetics in general with particular emphasis upon contemporary aesthetics. (Fall, odd years)

EDUCATION

EDUC 230. Elementary Methods in Curriculum and Instruction: Art 2 hours
 A study of the aims, philosophy, and methods of teaching art on the various levels of the elementary school.

EDUC 438. Methods of Teaching Art 2 hours
 Prerequisite: Admission to Teacher Education.
 Attention is given to methods and materials of instruction, planning, testing, and evaluating student performances, the survey and evaluation of textbooks. Four lectures each week of the first half of the first semester during the senior year.

(D-3), (W) See pages 19-22.

COMMUNICATION

Major: Thirty hours for the Bachelor of Arts degree including basic requirements of CRTF 101, 226; JOUR 111, 434; SPCH 135, 319; and fourteen hours in Radio-TV-Film, Journalism, or Speech emphasis:

Journalism Emphasis—JOUR 212, 316; CRTF 225, 312; plus five hours elected within the overall Communication offerings, two of which must be in Journalism.

Recommended cognate: ART 250, 251.

Radio-TV-Film Emphasis—CRTF 112, 225, 313, and 314, plus five hours elected within the overall Communication offerings, two of which must be in Radio-TV-Film.

Speech Emphasis—SPCH 236, 237, 317, plus seven hours selected within the overall Communication offerings and approved by the Communication advisor.

Cognate requirement: INDS 145. Intermediate level of a foreign language is required beginning Summer, 1983.

Minor—Communication: Eighteen hours of Communication classes including SPCH 135, 319; JOUR 111; CRTF 101, 226; with a minimum of six hours of upper division work from overall Communication offerings.

Minor—Radio-TV-Film: Eighteen hours of Communication classes including CRTF 101, 313, 225, 226; SPCH 135, 319; with a minimum of six hours within the minor to be upper division in Radio-TV-Film.

Minor—Journalism: Eighteen hours including JOUR 111, 212, 434 and CRTF 225, 226, with a minimum of six hours in upper division Journalism courses.



Minor—Speech: Eighteen hours including SPCH 135, 236, 237, 317, 319, with a minimum of six hours in upper division Speech courses.

ASSOCIATE OF SCIENCE DEGREE IN MEDIA TECHNOLOGY

Two-year curriculum especially designed for the technically oriented student interested primarily in the production and operation aspects of media. Students completing this degree can continue and complete a baccalaureate degree in Communication (Radio-TV-Film emphasis) without loss of educational time.

Requirements are as follows: Thirty hours including CRTF 101, 112, 217, 225, 237, 295, 313; INDS 145; INDS 274 or PHYS 316; CPTR 101 or 125; LIBR 333; with general education courses to meet CATALOG requirements and sufficient electives to make a total of 64 semester hours. Cognate requirement: ENGL 102.

Communication students at Southern College have opportunities for realistic learning experiences in connection with the College's radio station, WSMC-FM.

Students who include Radio-TV-Film courses in their preparation are encouraged to participate in the many aspects of the total program of WSMC-FM.

College Publications

The journalistic output of the Public Relations office of the College, the editing of the Associated Press teletype news service for WSMC-FM, *The Spire* (published by the Collegedale Seventh-day Adventist Church), and the Student Association publications—*Campus Chatter*, *Southern Accent*, *Southern Memories*, and *Joker* all provide students with varied opportunities to put journalistic principles into practice.

On-the-Job Training in Journalism, Public Relations, and Radio-TV-Film

A program of journalism and public relations on-the-job training for selected communication majors has been developed. This program (which has been approved by the General Conference of Seventh-day Adventists) calls for a student to associate with a publishing house, a newspaper, or an educational or medical institution for an arranged period working directly with the institution in its editing, publishing, or public relations activities. A scholarship is provided for the student and a proportionate amount of academic credit is available in JOUR 495.

A program of broadcasting and audio-visual media on-the-job training is also available. This program calls for a student to associate with a commercial or noncommercial broadcasting or production organization for an arranged period, working directly with professionals in various phases of radio or TV station operation or production. A scholarship is provided for the student and a proportionate amount of academic credit is available in CRTF 495.

RADIO-TV-FILM

CRTF 101. Audio Production I (G-2)

1 hour

Operation of mixing consoles, tape recorders, turntables, patch panels, microphones, etc. for various types of audio production. Meets two hours each week for lecture and demonstration during the first half of each semester. Reservations for two hours per week of individual control room practice and production time made at registration. Supplies fee \$5.00. (Fall, Spring)

CRTF 112. Audio Production II (G-1)

1 hour

Prerequisite: CRTF 101 (follows CRTF 101 second nine weeks of each semester).

Audio script interpretation, production music, sound effects, audio projects direction, quality control, equalization, special effects, etc. Meets two hours weekly for lecture and demonstration during second half of semester. Two hours per week of individual studio production time arranged. (Fall, Spring)

CRTF 217. Radio Station Operations

2 hours

Prerequisite: Current or previous enrollment in CRTF 101.

A laboratory course where the student becomes familiar with the day-to-day

Communication

46

operations of a radio station. The course covers control room procedures, announcing, production, automation, teletype, copy editing, traffic, music programming, etc. Taught in conjunction with WSMC-FM. (Spring)

CRTF 225. Introduction to Photography (G-1) 2 hours

Standardized procedures for camera and meter use, film exposure and development, negative enlargement and print finishing, and basic lighting and composition. Students must have their own 35mm camera with adjustable f-stops and shutter speeds. One hour of lecture, three hours of laboratory each week. Supplies made available to class members at cost, approximately \$50. (Fall, Spring, Summer)

CRTF 226. Survey of Mass Communication 3 hours

A study of the communication process in professional journalism and in the mass communication industries of modern society, with special consideration of the Christian segment of society, both as consumers and dispensers of information. (Spring)

CRTF 237. Film Production (G-1) 3 hours

Recommended: CRTF 101, 112, and 225.

The technique of communication and self expression through the motion picture medium. Lecture, readings, film viewing critique, and individual production using super 8mm. All equipment is supplied by SMC. Supplies are made available to students at cost. (Fall)

CRTF 312. Advanced Photography (G-1) 2 hours

Prerequisite: CRTF 225 or equivalent.

Advanced photographic techniques in camera handling, composition, exposure, and developing with special emphasis on creativity, darkroom techniques, and preparation for exhibit and publication. Students must have their own camera with adjustable stops and shutter speeds. One hour of lecture, three hours of laboratory each week. Supplies made available to class members at cost, approximately \$75. (Fall, Spring)

CRTF 313. Television Production 3 hours

Prerequisite: CRTF 101.

Camera, switcher, special effects generator, and videotape recorder operation. Elementary TV lighting, scripting, production and direction. Study of TV graphics, picture composition, and storyboard preparation. Two hours of lecture and three hours of laboratory each week. Supplies fee \$15.00. (Fall)

CRTF 314. Writing For Radio-TV (W) 3 hours

Prerequisites: CRTF 101, 112, and 313.

Emphasis on writing news for broadcast and persuasive spot announcements: commercials, religious spots, and public service announcements. Students desiring to write a 30 minute (or longer) dramatic script must register concurrently for 1 or 2 hours credit in CRTF 495. May apply on Journalism emphasis. Supplies are made available to students at cost. (Fall)

CRTF 418. Multi-Image Production

3 hours

Pre- or Co-requisite: CRTF 101.

Instruction in conceptualizing, forming, scripting, visual composition, taking and developing color transparencies; titling and graphics, making a synchronized sound track, plus programming and operation of dissolve units and slide projectors. Goal: Creation of projector slide shows using 1-6 projectors. (Spring)

CRTF 295/495. Directed Study

1-4 hours

Three types of options are offered: 1) As demand is developed for various specialized class instruction, the topic to be offered that term will be publicized prior to registration. 2) Individual projects in various aspects of communication on an independent study basis may be worked out. 3) This course also provides opportunity, among other options for on-the-job training in public relations, journalism, or Radio-TV-Film areas. Proposals must be submitted to the Division Chairman for approval before registering. This course also includes credit offered by the Communication Department on directed study tours. Course may be repeated. Up to four hours may apply on a Communication major or minor. (This course is also cross listed under JOUR and SPCH.) (Fall, Spring, Summer)

JOURNALISM

JOUR 111. News Reporting

3 hours

Prerequisite: ENGL 102, and SECR 105 or 106.

Practice in newswriting and general reporting of church, school, and community affairs for the public press. Study is given to the duties of the reporter in newsgathering and to his relationship to editorial requirements. (Fall, Summer)

JOUR 212. News Editing

2 hours

Prerequisite: JOUR 111.

Instruction is given in copy editing, headline writing, layout, and other editorial responsibilities through the various phases of newspaper production from copy to final print form. (Spring)

JOUR 315. Layout and Design of Publications

3 hours

Prerequisite: INDS 145.

Editorial techniques and problems from the arrival of the manuscript in the editor's office until the publication reaches the reader. Relationships with authors, manuscript handling, payment, layout and illustrations; relationships with art, composing, proofreading, and press rooms; circulation and distribution problems as they affect the editor. (Fall)

JOUR 316. Article and Editorial Writing (W)

3 hours

Prerequisite: ENGL 102, and SECR 105 or 106.

Preparation and marketing of feature and religious articles for newspapers and magazines, market analysis, writing for specialized markets. (Spring)

Communication

48

JOUR 427. Communication Law

3 hours

The nature and social functions of the major forms of communication laws and regulations and especially as pertains to the mass media: libel, slander, copyright, FCC and FTC Rules and Regulations, etc. This course may apply to the Radio-TV-Film emphasis. (Spring, even years)

JOUR 434. Public Relations

3 hours

Designed to give professional competence in the theory and practice of public relations, the course is a study of the plans and methods of disseminating information from business establishments and from institutions through all the media of communication. (Fall)

JOUR 295/495. Directed Study

1-4 hours

(See Radio-TV-Film 295/495 listing.) (Fall, Spring, Summer)

SPEECH

SPCH 135. Introduction to Public Speaking (D-4)

3 hours

Preparation and presentation of short informative and persuasive speeches with emphasis on the selection and organization of material, reasoning, methods of securing interest, persuasive strategies, and the elements of delivery. (Fall, Spring, Summer)

SPCH 136. Interpersonal Communication (D-4)

2 hours

Introducing the process of informal transactional communication, this course emphasizes a quality of communication rather than a communication setting, namely personal involvement through emphatic listening and self-disclosure. The course utilizes readings and learning activities to help students understand the theory of interpersonal communication and apply it in realistic transactions. (Fall, Spring)

SPCH 236. Oral Interpretation (D-4)

2 hours

Theory and practice in the art of conveying to others the full meaning of selections in literature of various types via reading and interpreting orally. (Fall, Spring)

SPCH 237. Voice and Diction

2 hours

An introductory study of the speech mechanism and the improvement of its functioning, with special attention to individual problems. The last half of the course is devoted to an intensive study of the International Phonetic Alphabet. (Spring, even years)

SPCH 245. Play Production

1-3 hours

A course in the theory and practice of stage production. The student will participate as a technician or performer in a full-length play. Students may enroll only by permission of the instructor.

SPCH 315. Group Discussion

3 hours

Prerequisite: SPCH 135 or SPCH 136.

A class providing study and practice in the theories and techniques of group discussion—processes, collaborative decision making, problem solving, participant and leader behavior—and formalized discussion situations.

SPCH 317. Persuasion

3 hours

Prerequisite: SPCH 135.

A study of ancient and modern theories of belief, attitude, and behavior change as well as practical experience in constructing and orally delivering messages aimed at such change. Special emphasis is placed on ethical considerations. (Fall, Spring)

SPCH 319. Communication Theory (W)

3 hours

Prerequisites: SPCH 135 and ENGL 102 or 104.

Introducing the study of communication transactions in all arenas—intrapersonal, interpersonal, small group, public speaking, and mass media—this course gives attention to models of communication and to the psychology, sociology, semantics, and ethics of the communication process. This course may apply to the Journalism minor. (Fall)

SPCH 295/495. Directed Study

1-4 hours

See CRTF 295/495 listing. (Fall, Spring, Summer)

(D-4), (F-1), (G-1), (G-2), (W) See pages 19-22.

ENGLISH LANGUAGE AND LITERATURE

Major: Thirty hours for the Bachelor of Arts degree, excluding Basic Writing and College Composition. Requirements include ENGL 216, 218, 314, 315, 335; plus six hours from ENGL 214, 333, 334; plus nine hours from ENGL 336, 337, 338, 444. Required cognates: HIST 374 and HMNT 205. Intermediate level of a foreign language is required beginning Summer, 1983.

Students anticipating secondary teaching should meet state certification requirements (see Secondary Education requirements under DIVISION OF EDUCATION AND HUMAN SCIENCES), should consider taking a minor in Fields Related to English Education, and should obtain experience working on the Southern Accent staff, Southern Memories staff, and/or a programs committee of one of the student organizations.

Minor: Eighteen hours, excluding Freshman English, College Composition, and Honors Composition, including ENGL 218 or 315; 214 or

English Language and Literature

50

333 or 334; 314; plus two of the following: ENGL 336, 337, 338, 444; plus three hours of electives.

Minor in Fields Related to English Education (Available only to English Majors): Eighteen hours including LIBR 125; HIST 374; SPCH 135 and 236; JOUR 111; and four (two upper division) hours from the following electives: PSYC 124; SECR 105, 115, or 214; EDUC 333; any Communication course; any Library Science course.

Teaching Endorsement:

ENGL 101, 102	College Composition	6 hours
ENGL 218 or	Advanced Grammar (3)	3 hours
315	Intro. to Linguistics (3)	
ENGL 214 or	Survey of American Literature (3)	
333 or	American Literature from Colonial through Romantic Periods (3)	3 hours
334	American Literature from Realism to the Present (3)	
ENGL 314	Creative Writing	3 hours
	English electives	3 hours
	Two of the following four areas for a total of	6 hours
ENGL 336	Medieval and Renaissance Literature (3)	
ENGL 337	19th Century British Writers (3)	
ENGL 338	20th Century Writers (3)	
ENGL 444	Restoration and 19th Century Literature (3)	

TOTAL 24 hours

Before the end of the sophomore year, the student must apply to the Division of Education and Human Sciences for admission to the Teacher Education Program. Before the end of the junior year, the student must apply to the Division of Education and Human Sciences for admission to the professional semester.

ENGLISH LANGUAGE AND COMPOSITION

ENGL 021. Basic American English 5-15 hours equivalent

This course is for students with limited English proficiency as defined by the Michigan English Language Institute Test. Emphasis is on developing language skills in conversation, writing, and reading comprehension. Grammar, vocabulary, spelling, and current American idioms are stressed. Each student is strongly urged to room with native speakers of English and to find work where his/her own language is not used. This self-paced course

is noncredit, but is recognized by the Department of Immigration and Naturalization as part of the minimum class load required of international students. Class meets daily for three hours.

ENGL 099. Basic Writing

3 hours

Focuses on development of those writing skills necessary for successful entry into ENGL 101. Students whose English ACT score is 12 or below are required to register for this class. Students successfully completing this course will earn three institutional elective credits and may enroll in ENGL 101. This course does not count toward an English major or minor. (Fall, Spring)

ENGL 101:102. College Composition (A-1)

3,3 hours

A two-semester, sequential course focusing strongly on the writing process, especially revision. ENGL 101 emphasizes specific writing skills and principles which readily apply to various personal (narrative, descriptive, and expository writing tasks. ENGL 102 reinforces the proficiencies developed in ENGL 101 while focusing on rhetorical and reasoning skills which apply to various persuasive and research writing activities. This course does not count toward an English major or minor. (Fall, Spring, Summer)

ENGL 105. Technical Writing

3 hours

An introduction to basic business communications, to the most common types, terms, and methods used; to the skills essential to reading and writing job descriptions, memos and letters, resumes, invoices, etc. and skills essential for day-to-day survival in a world of triplicate forms and fine print. (Spring)

ENGL 218. Advanced Grammar

3 hours

A detailed survey of descriptive grammar as it pertains to parts of speech, sentence construction, syntax, and punctuation. Designed to aid any student who wishes to strengthen his skill in grammar analysis, it is also especially helpful for prospective teachers and writers. (Fall)

ENGL 314. Creative Writing (G-1)

3 hours

Prerequisite: Three hours of literature or permission of instructor.

A study of the principles, techniques, and types of personalized writing, providing the student with opportunity to develop his own style and to find possible markets for his manuscripts that may be worthy of publication. (Spring)

ENGL 315. Introduction to Linguistics

3 hours

Prerequisite: ENGL 102.

Purposes to give the student a background in history of the English language; to acquaint him with the various fields, aspects, and branches of linguistics; to equip him with a working knowledge of structural linguistics' four principal branches—phonetics, phonemics, morphemics, and grammar; and to relate these learnings to the teaching of contemporary English. Open to sophomore and upper division students. This course may be taught only alternate years. (Fall)

English Language and Literature

52

LITERATURE

- ENGL 213. Literature and Life (D-2)** **3 hours**
Prerequisite: ENGL 102.
A thematic approach to the study and appreciation of literature, including the study of literary types and terms. (Spring)
- ENGL 214. Survey of American Literature (D-2)** **3 hours**
Prerequisite: ENGL 102.
A study of representative selections from major American authors, colonial through modern, with emphasis on ideas, attitudes, and trends having individual, national, and universal interest. (Fall, Summer)
- ENGL 215. Survey of English Literature (D-2)** **3 hours**
Prerequisite: ENGL 102.
A study of representative selections by British writers, with special emphasis on the author and his philosophy, and a review of literary trends and influences from ancient times to the present. (Fall, Spring)
- ENGL 216. Approaches to Literature (D-2)** **3 hours**
Prerequisite: ENGL 102.
A genre approach to the study and appreciation of selected English and American works, with special emphasis on the critical qualities that distinguish such basic literary types as the essay, the short story, the drama, the poem, etc. (Fall, Spring)
- ENGL 333. American Literature From Colonial Through Romantic Periods (D-2), (W)** **3 hours**
A reasonably comprehensive, chronological study of the works of major American writers with special emphasis on Bradford, Taylor, Franklin, Edwards, Irving, Cooper, Bryant, Poe, Emerson, Thoreau, Hawthorne, Melville, Longfellow, Lowell, and Whitman. This course may be taught only alternate years. (Spring, even years)
- ENGL 334. American Literature From Realism to the Present (D-2), (W)** **3 hours**
A continuation of ENGL 333, from the mid-nineteenth century through some of the more recent writers, including Dickinson, Twain, James, Adams, Crane, Robinson, Frost, Fitzgerald, Hemingway, and Faulkner. (Spring, odd years)
- ENGL 335. Biblical Literature (D-2), (W)** **3 hours**
A survey of the Bible's literary masterpieces from an archetypal perspective. The Bible is viewed as one story, the double quest: man, searching for a lost Eden, and Christ, the great Questor, seeking the restoration of His world and His family. This story, reinforced by its central theme of redemption and by the universal archetypal symbols centering in Christ the Word made flesh, actually permeates all imaginative literature. Biblical genres studied include the story of origins, heroic narrative, epic, idyl, lyric poetry, wisdom literature, encomium, epithalamion, gospel, epistle, and apocalypse. (Spring)

ENGL 336. Medieval and Renaissance Literature (D-2), (W) 3 hours

From Chaucer through Shakespeare, the men and their times. Readings in *Canterbury Tales*, Middle English romance, allegory, play, and meditation in translation; in sixteenth century prose, Elizabethan poetry and dramatic literature, with study of genre, conventions, trends. Specific attention to moral and religious issues. This course may be taught only alternate years. (Spring, even years)

ENGL 337. Nineteenth Century British Literature (D-2), (W) 3 hours

A study of British writers from the Romantic or Victorian periods (1785-1901), with special emphasis upon Blake, Wordsworth, Coleridge, Byron, Shelley, Keats, Tennyson, Dickens, Arnold, Browning, Carlyle. This course may be taught only alternate years. (Summer)

ENGL 338. Twentieth Century Writers (D-2), (W) 3 hours

A study of twentieth century writers with an emphasis on poetry or prose. Focus will be on American and/or British works, but world literature in translation may be included. This course may be taught only alternate years.

ENGL 444. Restoration and Eighteenth Century Literature (W) 3 hours

English life and letters in ferment through the Enlightenment and decline of Neo-classicism: Milton, Dryden, Swift, Pope, Johnson. Special attention to moral and religious issues, trends. This course may be taught only alternate years. (Fall)

ENGL 445. World Literature (W) 3 hours

A study of major world masterpieces in translation, from Homer through the Renaissance. Special focus on development of genres, tracing growth of the epic from the Greek and Roman masterpieces through medieval and Renaissance examples; development of drama from Greece's golden age to the golden age of Spain. Other major genres include lyric poetry, satire, essay, medieval romance, and Renaissance narrative. Works written originally in English will not be included. This course may be taught only alternate years. Students desiring a complete sequence in world literature may follow this course with MDLG 304. (Fall)

ENGL 295. Directed Study 1-3 hours

The content of this course will be adjusted to meet the particular needs of the student, including requests for credit for such activities as projects done during student missionary terms. This course also includes credit offered by the English Department on directed study tours. Open only to students approved by the division chairman in consultation with the prospective instructor.

ENGL 495. Directed Study 1-3 hours

The content of this course will be adjusted to meet the particular needs of the student. This course also includes credit offered by the English Department on directed study tours. Open only to English majors or minors with the approval of the division chairman in consultation with the prospective instructor.

History — Political Science

54

EDUCATION

EDUC 438. Methods of Teaching English

2 hours

Prerequisite: Admission to Teacher Education.

Attention is given to methods and materials of instruction, planning, testing, and evaluating student performances; the survey and evaluation of textbooks is also included. Four lectures each week of the first half of the semester. (Spring)

(A-1), (D-2), (G-1), (W) See pages 19-22.

HISTORY

Commonly understood, history is the study of mankind, their accomplishments, institutions, and explanations that have been offered to answer the "Why" of man's existence. In addressing these issues history courses at Southern College take into account the Christian view of man. Christian insights into human nature and our recognition of the possibilities and limitations of human endeavor permit a greater comprehension of the past, the present, and the hope for the future.

Approval of study programs for history majors. Departmental approval is necessary for all programs. A student majoring in history shall plan his entire study program with a member of the history faculty. Approval is then considered on an individual basis and is granted on the following conditions:

1. Compliance with graduation requirements as explained elsewhere in the CATALOG.
2. Fulfillment of the professional and individual needs of the student.
3. Embodiment of academic balance and continuity.

Major: Thirty hours for the Bachelor of Arts degree including HIST 154, 155; 174, 175; 499. Six hours of political science may apply to the major. At least two courses are to be taken in each of the following areas:

Area I: American History, HIST 354, 355, 356, 357, 358, 465; PLSC 254.

Area II: European History, HIST 374, 375, 376, 377, 378, 465; PLSC 324, 366; either HIST 364 or 365. Intermediate level of a foreign language is required beginning Summer, 1983.

General education for history majors. A student majoring in history will follow the general education program for a bachelor's degree. Cognates for history majors: A student majoring in history will take six hours in a single cognate area. In most cases the credit is applicable to general education. Four choices of cognate areas are available as follows:

History — Political Science

55

- A. ECON 224, 225: Economics 6 hours
- B. SOCI 328, 374, 424: Sociology 6 hours
- C. ENGL 300 and 400 level courses apply: Literature 6 hours
- D. MDLG 211:212; RELL 311:312: Foreign Language — intermediate level

History as a preprofessional degree. A student majoring in history who plans to enter a professional school in an area such as medicine or law must present a balanced program of general education classes and electives that will support his professional objectives.

History as a preparation for teaching. A student majoring in history who plans to teach must also earn teaching credentials in a field outside of history. He will accomplish this by including a supporting field of eighteen hours in his program. No specific supporting field is required but art, behavioral science, business, English, and modern languages are recognized as intimately related to the study of history.

Minor in History: Eighteen hours including HIST 174, 175. The additional twelve hours will be chosen from remaining history courses, six hours of which must be upper division. A minimum of three hours must be chosen from each of the American and European areas. Three hours of political science may be taken in lieu of three hours of history. Those planning to certify for teaching history must take all eighteen hours in history and should include HIST 154, 155. See Teaching Endorsement below.

General education for students not majoring in history. Freshman and sophomore students earning general education credit in history should take courses from the 100 and 200 level. Junior and senior students meeting general education requirements in history should select courses from the 300 and 400 level.

Teaching Endorsement: The student must earn at least 24 semester hours in the subject area of his first teaching field. He may add the following endorsement by meeting the number of hours indicated on the following page.

Before the end of the sophomore year, the student must apply to the Division of Education and Human Sciences for admission to the Teacher Education Program. Before the end of the junior year, the student must apply to the Division of Education and Human Sciences for admission to the professional semester.

HIST 154, 155	American History	6 hours
HIST 174, 175	Survey of Civilization	6 hours
	History electives numbered	
	300 or above	6 hours

TOTAL 18 hours

History — Political Science

56

HISTORY

HIST 154, 155. American History and Institutions (C-1) 3,3 hours

A study of the regional and national development of the American people, including their politics, government, and social institutions reaching to the present time. This course is recommended as general education for freshmen and sophomores. (Fall, Spring, Summer)

HIST 174, 175. Survey of Civilization (C-1) 3,3 hours

An introductory consideration of the ancient, classical, and medieval contributions to our own civilization and a consideration of modern and current developments. This course is recommended as general education for freshmen and sophomores. (Fall, Spring)

HIST 354. History of Latin America (C-1), (W) 3 hours

A survey of the colonial period and a careful analysis of the political, economic, social, religious, and cultural development of the Latin-American Republics and their present relation to world affairs. (Fall)

HIST 355. History of the South (C-1), (W) 3 hours

A study of the Old South from the discovery through the war between the states, the reconstruction and the subsequent developments, and recent changes, including the current scene. (Spring)

HIST 356. Minorities in America (C-1), (W) 3 hours

A view of American minorities with particular emphasis on their history, changing problems, and current relationship to American life. Special attention is devoted to the American Black. (Spring)

HIST 357. Modern America (C-1), (W) 3 hours

A study of American History from 1900 on with special examination of the progressive era, normalcy, the depression, the New Deal, and the role of the United States in world affairs. (Fall)

HIST 359. Transformation of American Culture (C-1) (W) 3 hours

A topical approach to nineteenth and twentieth century American history, focusing on the modernization of life. Among the topics that may be covered are entertainment, the media, urban culture, social relations, transportation, and art and architecture.

HIST 364, 365. History of the Christian Church (C-1), (W) 3,3 hours

A study of the development of the Christian Church from its apostolic origin to the present time with emphasis on the internal problems that eventually formed the background for present-day Christianity and its various divisions. (Fall, Spring, Summer)

HIST 374. History of England (C-1), (W) 3 hours

An analysis of the political, social, economic, religious, and cultural development of Great Britain and its contributions to the world, especially in constitutional and democratic institutions. (Fall)

History — Political Science

57

HIST 375. Ancient World (C-1), (W)

3 hours

A study of the nations of antiquity, especially Israel, Assyria, Babylonia, Egypt, Medo-Persia, and the classical nations Greece and Rome, concentrating on the institutions and contributions to civilization of each. (On demand)

HIST 376. Medieval Europe (C-1), (W)

3 hours

European History from the Roman decline through the High Middle Ages, stressing feudal, imperial, and ecclesiastical systems. (On demand)

HIST 377. Renaissance and Reformation (C-1), (W)

3 hours

An analysis of the revival of learning, from medieval to modern conditions, and of the causes, substance, and effects of the Reformation and Counter Reformation. (On demand)

HIST 378. Modern Europe (C-1), (W)

3 hours

Historical developments in Europe from 1800 to the present, with emphasis on the movements which have directly shaped the contemporary world. (On demand)

HIST 465. Topics in History (C-1), (W)

3 hours

Selected topics in history presented in classroom setting. Subjects covered will determine whether credit is granted in Area I or Area II. This course may be repeated for credit. (On demand)

HIST 295/495. Directed Study (C-1), (W)

1-3 hours

A course emphasizing individual directed study. The instructor to whom a student is assigned will determine whether credit is upper or lower division. This course also includes credit offered by the History Department on directed study tours. Writing emphasis credit for HIST 495 only. Approval of the department is required prior to registration.

HIST 499. Research Methods in History (C-1), (W)

3 hours

Historical theories, procedures, and research methods are examined in conjunction with the preparation of a research project. (Fall)

POLITICAL SCIENCE

PLSC 254. American National and State Government (C-2) **3 hours**

An examination of the operation of the executive, legislative, and judicial branches of government of the national, state, and local levels. (Fall)

PLSC 324. Comparative Economic Systems (C-2), (W)

3 hours

See Economics listings under Division of Business and Office Administration. (Fall)

PLSC 368. Origins of Modern Political Thought (C-2), (W) **3 hours**

A seminar in political thought from the Renaissance to the twentieth century. Utilizing readings in significant primary documents, the course em-

Modern Languages

58

phasizes the developments of various political theories including absolutism, constitutionalism, democracy, utopian socialism, Marxism, and revolutionary ideals.

PLSC 465. Topics in Political Science

3 hours

See course description for HIST 465.

GEOGRAPHY

GEOG 204. World Geography (C-2)

3 hours

(For elementary education majors only).

Maps, land forms, soil, mineral resources, weather, and climate are considered. Man's adjustment to various physiographic regions is studied. (Spring)

EDUCATION

EDUC 438. Methods of Teaching History

2 hours

Prerequisite: Admission to Teacher Education.

Attention is given to methods and materials in instruction, planning, testing, and evaluating student performances, the survey and evaluation of textbooks. Four lectures each week of the first half of the semester. (Spring)

(C-1), (C-2), (W) See pages 19-22.

MODERN LANGUAGES

This department offers the opportunity for students to discover French, German, and Spanish not only as living languages but also as reflections of the cultures, customs, and peoples they represent. The aim, then, is to provide both an aesthetic background and a practical tool in the event the student becomes an overseas traveler or worker.

The ability to communicate with people is increasingly essential in today's shrinking world, and an acquaintance with a foreign culture should be part of the background of educated persons, particularly those with a sense of world mission. The Department of Modern Languages aspires toward helping Christians fulfill this responsibility to demonstrate good will, whether as travelers and business people or as respondents to the Master's gospel commission.

Students whose mother tongue is a language other than English and who wish to major in their native language obviously begin with certain basic skills already achieved. These skills are reasonably expected to be at least equivalent to the intermediate level. Such students will be asked to demonstrate these skills through a qualifying examination which, when successfully completed, will constitute a waiver of the six inter-

mediate credits. These six credits are to be replaced by three hours of advanced English grammar (ENGL 218) and three hours from Masterpieces in Translation (MDLG 304), American or English literature, or American history. The foreign language major for students majoring in their mother tongue may thus be considered to consist of 30 hours but to include a waiver of six hours.

FOREIGN STUDY

Adventist Colleges Abroad. Southern College is a member of the consortium of colleges and universities which, under the auspices of the General Conference of Seventh-day Adventists, supports the Adventist Colleges Abroad program. ACA provides an opportunity for students of French, German or Spanish to achieve proficiency in the foreign language amid the added advantages of an authentic cultural setting.

The following institutions are affiliates of ACA: In Austria, Seminar Schloss Bogenhofen, Braunau; in France, Seminaire Adventiste, Collonges-sous-Saleve; and in Spain, Colegio Adventista de Sagunto, Sagunto.

Students participate in the ACA program to obtain such goals as a language major with a speaking proficiency; a language minor with a speaking proficiency; general education credit, especially in such fields as history, humanities, religion, art, and music in an overseas setting; broader perspectives through foreign travel and experience, without loss of academic time; foreign study at reasonable cost; and insights into the global nature of the Seventh-day Adventist Church.

Most ACA students return with a minor in the language. Some, especially if they have completed the intermediate year before leaving for Europe, return with enough credits for a major. A major or minor in the foreign language is not automatic, however; ACA students intending to fulfill major or minor requirements must counsel with the Modern Languages staff before drafting their overseas program.

Needed for admission to the ACA program are:

1. Admission as a regular student at SC.
2. Competence in the language. (The intermediate level is recommended; one year in college or two in secondary school may sometimes be accepted.)
3. A record free from academic and citizenship probation.
4. The special ACA application form, submitted to the Admissions Office.
5. Compliance with the financial requirements. (See page 194. Costs, including transportation, are comparable to those at Adventist colleges in the United States.)

Modern Languages

60

The University of Montemorelos. By arrangement with the University of Montemorelos in Nuevo Leon, students may apply for an intensive summer course in Spanish in Mexico. An academic-year program is also available to a limited number of students. Credit for both plans is variable.

PROGRAMS

Major—French, German or Spanish: Thirty hours for the Bachelor of Arts degree, excluding course 101:102 but including course 211:212. Because the number of hours available on the SC campus is limited, students are expected to earn a large portion of their major through ACA or the Montemorelos affiliation. Students not interested in foreign study are referred to the International Studies major (below).

Minor—French, German or Spanish: Eighteen hours excluding course 101:102 but including course 211:212 and six hours of upper-division courses. Because advanced courses in French and German are not at present offered on the SC campus, the student desiring a minor in French or German must plan either a year in the ACA program or two summer terms in an intensive language program previously approved by this division.

Major—International Studies: This major is intended to offer basic language and literature within a framework of international cultural dimensions. Such a program is sometimes considered a “humanities major.” Only a Spanish emphasis is at present available on the SC campus. ACA students who complete sufficient language, culture and literature courses overseas may, however, apply for the International Studies major in French or German. Thirty hours are required for the Bachelor of Arts degree, including the following:

SPAN (or GRMN or FREN) 211:212 —

Intermediate Level 6 hours

SPAN (or GRMN or FREN) 344 — Composition and

Conversation 3 hours

SPAN (or GRMN or FREN) 354 — Culture and Civilization 3 hours

ENGL 445 — World Literature 3 hours

MDLG 304 — Masterpieces in Translation 3 hours

ART 245, 246 (or MUHL 315) — History of Art

(or History of Music — 4 hours) 4 hours

HIST 378 (or 354) — Modern Europe

(or History of Latin America) 3 hours

Additional hours from language and literature, world geography, a second foreign language, or ART 245, 246 or MUHL

315 (whichever is not taken above) 5 hours*

*Students desiring certification in Spanish, French or German must take these six hours in that language. Cognate requirement: In fulfilling the general education requirements in Religion, the student will include RELT 368, World Religions (3 hours).

TOTAL 30 hours

Teaching Endorsement: The student must earn at least 24 semester hours in the subject area of his first teaching field. He may obtain an endorsement in a second foreign language by successfully completing 12 semester hours above the intermediate level.

Before the end of the sophomore year, the student must apply to the Division of Education and Human Sciences for admission to the Teacher Education Program. Before the end of the junior year, the student must apply to the Division of Education and Human Sciences for admission to the professional semester.

SPECIAL COURSES

MDLG 304. Masterpieces in Translation (D-2) 3 hours

A survey, team-taught, of great literary works from France, Germany, Spain, and Spanish America, from the seventeenth century to modern times. Students desiring a complete survey of world literature may first enroll for ENGL 445, World Literature, which covers the centuries up to the seventeenth. Applies toward general education requirements in literature but not toward the major in German or Spanish. (Spring, even years)

MDLG 295/495. Directed Study 2-6 hours

The content of this course will be adjusted to meet the particular needs of the individual student. This course also includes credit offered by the Modern Languages Department on directed study tours. Approval of the instructor must be obtained prior to registration for the course.

FRENCH

FREN 101:102. Elementary French (D-1) 4,4 hours

A foundation course in the basic skills. May be waived by examination. Laboratory work is required. No credit will be allowed for elementary modern language if credit has already been received for it at the secondary level. (No credit may be earned for this course by students whose mother tongue is French.) FREN 101 is offered fall odd years; 102, spring even years.

FREN 211:212. Intermediate French (D-1) 3,3 hours

Prerequisite: Entrance by standardized examination at required level. Advanced grammar; intensive and extensive reading of moderately difficult prose and poetry; oral and written exercises. Laboratory work is required. (No credit may be earned for this course by students whose mother tongue is French.) (FREN 211 is offered Fall even years; 212, Spring odd years.)

Modern Languages

62

GERMAN

GRMN 101:102. Elementary German (D-1) 4,4 hours

A foundation course in the basic skills. May be waived by examination. Laboratory work is required. No credit will be allowed for elementary modern language if credit has already been received for it at the secondary level. (No credit may be earned for this course by students whose mother tongue is German.) GRMN 101 is offered fall even years; 102, spring odd years.

GRMN 211:212. Intermediate German (D-1) 3,3 hours

Prerequisite: Entrance by standardized examination at required level.

Advanced grammar; intensive and extensive reading of moderately difficult prose and poetry; oral and written exercises. Laboratory work is required. (No credit may be earned for this course by students whose mother tongue is German.) GRMN 211 is offered fall odd years; 212, spring even years.

GRMN 344. Composition and Conversation (D-1), (W) 3 hours

Prerequisite: GRMN 211:212 or equivalent.

An intensive course aiming at proficiency in understanding and speaking, at a practical knowledge of stylistics, and at ability in free composition. (Not open to German-speaking nationals.) (Fall, even years)

Because of infrequent demand, the following three courses are not regularly taught, but may be arranged on an individual or directed-study basis.

GRMN 355, 356. Survey of German Literature (D-2) 3,3 hours

A prerequisite for all subsequent literature courses; history and development of German literature; reading of representative works.

GRMN 358. German Romanticism (D-2) 2 hours

The poetry and prose of outstanding writers of this period from Holderlin to Heine.

GRMN 445. German Classicism (D-2) 2 hours

A course offering a comparison of Goethe and Schiller, Goethe's Classical Period (1787-1805), Schiller's Classical Period (1787-1805), and Goethe's Old Age (1805-1832).

SPANISH

SPAN 101:102. Elementary Spanish (D-1) 4,4 hours

A foundation course in the basic skills. May be waived by examination. Laboratory work is required. No credit will be allowed for elementary modern language if credit has already been received for it at the secondary level. (No credit may be earned for this course by students whose mother tongue is Spanish).

SPAN 211:212. Intermediate Spanish (D-1) 3,3 hours

Prerequisite: Entrance by standardized examination at a required level.
Advanced grammar; intensive and extensive reading of moderately difficult Spanish texts; oral and written exercises. At the discretion of the Division Chairman, this course may be closed to Spanish-speaking persons with three credits in secondary Spanish. Laboratory work is required. (No credit may be earned for this course by students whose mother tongue is Spanish).

SPAN 336. Masterpieces of Spanish Literature (D-2) 3 hours

Prerequisite: SPAN 211:212 or equivalent.
History and development of Spanish literature; reading of representative works. (Spring, odd years)

SPAN 344. Composition and Conversation (D-1), (W) 3 hours

Prerequisite: SPAN 211:212 or equivalent.
Development of skill in speaking, understanding, and writing idiomatic Spanish. (Not open to Spanish or Latin-American nationals.) (Fall, odd years)

SPAN 354. Hispanic Culture and Civilization 3 hours

Prerequisite: SPAN 211:212 or equivalent.
The social, religious, political, economic, artistic, and intellectual scene in the Spanish-speaking world. (Fall, even years)

SPAN 365. Spanish Linguistics 3 hours

Prerequisite: SPAN 211:212 or equivalent. Recommended: SPAN 344.
Introduction to the morphological, syntactic, and phonemic structure of the Spanish language. Practice in sounds, intonation, and transcription; remedial pronunciation drills. (Spring, odd years)

SPAN 436. Masterpieces of Spanish-American Literature (D-2) 3 hours

Prerequisite: SPAN 211:212 or equivalent.
History and development of Spanish-American literature; reading of representative works. (Spring, even years)

EDUCATION

EDUC 438. Methods of Teaching Modern Languages 2 hours

Prerequisite: Admission to Teacher Education.
Learning and teaching a foreign language, in both theory and practical application, with special attention to goals, planning, classroom techniques, selection and utilization of materials and aids, and evaluation of student performance. Four lectures each week of the first half of the first semester during the senior year.

(D-1), (D-2), (W) See pages 19-22.



DIVISION OF BUSINESS AND OFFICE ADMINISTRATION

Chairman: Wayne VandeVere

Business Administration
 Bill Richards L. Steven Spears
 Cecil Rolfe Wayne VandeVere
 Dan Rozell

Office Administration
 Joyce Cotham
 Helen Knittel
 Jolene Zackrison

The courses and programs offered by the division are designed to prepare students for business-related careers with the church, government, industry, and in long-term health care.

The objectives of the division are:

1. To give the student a broad background of knowledge of the free enterprise system within a framework of moral and ethical guidelines.

2. To assist the student to develop a sound Christian philosophy towards our current economic environment and the ever changing business world of the future.
3. To provide the student with a quality academic program with basic business and office skills required for initial job placement.
4. To encourage Seventh-day Adventist students to serve as workers and in positions of business leadership within organizations sponsored by this denomination.
5. To provide the necessary academic background for entrance into most graduate degree programs in business.

The division offers a Bachelor of Business Administration degree (B.B.A.) with majors in accounting and management and a Bachelor of Science degree (B.S.) with majors in Business Administration, Business Education, and Long-Term Health Care.

For those who desire a two-year program, Associate of Science degrees (A.S.) are available in Accounting and Office Administration with options with or without shorthand. Minors in either Business or Office Administration are offered.

Students who plan to teach business subjects at the high school level should major in Business Education and should also fulfill the requirements for teacher certification.

BUSINESS ADMINISTRATION

BACHELOR OF BUSINESS ADMINISTRATION DEGREE

The B.B.A. degree requires a basic core of business courses plus a major in accounting or management. Basic Core Course requirements are as follows:

ACCT 121:122	Principles of Accounting	6 hours
ECON 224:225	Principles of Economics	6 hours
ECON 314	Money and Banking	3 hours
BUAD 215	Statistics	3 hours
BUAD 315	Business Finance	3 hours
BUAD 326	Introduction to Marketing	3 hours
BUAD 334	Principles of Management	3 hours
BUAD 337:338	Business Law	6 hours
BUAD 346	Quantitative Methods for Business Decisions	3 hours
BUAD 414	Business Policies	3 hours
BUAD 488	Seminar in Business Administration ..	1 hour
SECR 315	Business Communications	3 hours
TOTAL		43 hours

Business Administration

66

Major: Accounting: 24 hours plus the above B.B.A. Core Requirements:

ACCT 211:212	Intermediate Accounting	6 hours
ACCT 317	Federal Income Taxes	4 hours
ACCT 318	Cost and Managerial Accounting	4 hours
ACCT 417	Auditing	4 hours
	Accounting electives	6 hours
	TOTAL	24 hours

Major: Management: 24 hours plus the above B.B.A. Core Requirements:

ACCT 211	Intermediate Accounting	3 hours
ACCT 318	Cost and Managerial Accounting	4 hours
BUAD 344	Personnel Administration	3 hours
BUAD 353	Organizational Behavior	2 hours
BUAD 355	Management of a Small Business	3 hours

One of the following two courses:

BUAD 347	Business and Government	3 hours
ECON 328	Managerial Economics	3 hours
	Electives in ACCT, BUAD, or ECON ..	6 hours
	TOTAL	24 hours

Among the General Education Requirements, the B.B.A. degree student must include RELT 373, SPCH 135, a course in Psychology, and either CPTR 101, 125, or 217.

BACHELOR OF SCIENCE DEGREES

Major: Business Administration: Forty-eight hours including ACCT 121:122, 211; BUAD 215, 315, 326, 334, 337, 338, 346, 414, 488; ECON 224, 225; SECR 315; plus five hours in ACCT, BUAD, or ECON. Cognate requirement: CPTR 101 or 125.

Major: Long-term Health Care: Forty-eight hours including ACCT 121:122; BUAD 215, 231, 232, 234, 235, 315, 334, 337, 338, 497, 498; ECON 224, 225 plus one-hour elective from the Division of Business & Office Administration. Cognate requirement: CPTR 101 or 125.

Minor: Business Administration: Eighteen hours including ACCT 121:122; ECON 213 or 224; BUAD 334 or 344; and six hours of upper division courses in Accounting, Economics or Business Administration.

ASSOCIATE OF SCIENCE DEGREES

Major: Accounting: Thirty-one hours for the Associate of Science degree, including ACCT 121:122, 211:212, 318; BUAD 128, 337; ECON 224; plus six hours electives in Accounting, Economics and Business

Administration. Cognates required: CPTR 101 or 125; SECR 115 or equivalent.

Major: Long-term Health Care: Thirty-two hours for the A.S. degree including ACCT 121:122; BUAD 231, 232, 234, 235, 334, 337, 497, 498. Cognates required: CPTR 101, ECON 213, HLED 173.

Students who hold a bachelor's degree may receive an A.S. degree in Long-term Health Care with some exceptions to the above requirements. Contact the Division office for details.

Teaching Endorsements: The student must earn a major in the subject area of his first teaching field. He may add the following endorsements by meeting the number of hours indicated below.

Bookkeeping

ACCT 121:122	Principles of Accounting	6 hours
	Accounting elective	4 hours
ECON 224 or ECON 225	Principles of Economics	3 hours
	Two of the following three areas for a total of	6 hours
BUAD 337 or 338	Business Law (3)	
BUAD 128	Personal Finance (3)	
SECR 315	Business Communications (3)	
	TOTAL	19 hours

Business Law

ACCT 121	Principles of Accounting	3 hours
ECON 224 or ECON 225	Principles of Economics	3 hours
BUAD 337, 338	Business Law	6 hours
	Business elective	3 hours
BUAD 128 or SECR 315	Personal Finance (3)	3 hours
	Business Communications (3)	
	TOTAL	18 hours

Economics

ECON 224, 225	Principles of Economics	6 hours
	Economics electives	6 hours
	TOTAL	12 hours

Before the end of the sophomore year, the student must apply to the Division of Education and Human Sciences for admission to the Teacher Education Program. Before the end of the junior year, the student must apply to the Division of Education and Human Sciences for admission to the professional semester.

Business Administration

68

ACCOUNTING

- ACCT 103. College Accounting** **3 hours**
This course covers the fundamental accounting processes dealing with the bookkeeping and accounting functions for the small business, professional offices, merchandising firms and service organizations. This course does not apply towards a bachelor's degree offered by the Division of Business and Office Administration. (Spring)
- ACCT 121:122. Principles of Accounting (G-2)** **3,3 hours**
A course in the fundamentals of accounting theory. (Fall, Spring, Summer)
- ACCT 211:212. Intermediate Accounting** **3,3 hours**
Prerequisite: ACCT 121:122.
An advanced course in accounting principles and theory including preparation of financial statements, intensive study and analysis of the classification and evaluation of balance sheet accounts and their related income and expense accounts. (Fall, Spring)
- ACCT 316. Fund and Institutional Accounting** **3 hours**
Prerequisite: ACCT 121:122.
A course designed to provide an in-depth coverage of the concepts of fund accounting as they apply to governmental units and not-for-profit institutions including schools, hospitals, and churches. Considerable attention will be given to accounting principles as used by the various institutions of the Seventh-day Adventist Church. (Fall)
- ACCT 317. Federal Income Taxes** **4 hours**
Prerequisite: ACCT 121:122.
A course designed to provide an explanation and training in the application of personal and corporate Federal income taxes to specific problems. Social Security taxes are also included. (Spring)
- ACCT 318. Cost and Managerial Accounting** **4 hours**
Prerequisite: ACCT 211 or permission of instructor.
A course in the general principles of cost accounting as they apply to the manufacturing process including job order, process costing, standard costs, direct costing, budgeting, cost analysis, and managerial applications. (Fall)
- ACCT 415. Advanced Accounting** **3 hours**
Prerequisite: ACCT 211:212.
A course designed to study the problems concerned with consolidated financial statements, partnerships, business firms in financial difficulty, estates and trusts, foreign exchange, and segment reporting. (Spring)
- ACCT 417. Auditing** **4 hours**
Prerequisite: ACCT 211:212.
A course designed to study auditing and its related types of public accounting work including generally accepted auditing standards, professional code of ethics of the AICPA, and auditing procedures. (Fall)

ACCT 418, 419. C.P.A. Review Problems 3,3 hours

Prerequisite: Permission of instructor.

A course designed to study accounting theory, auditing, accounting practice, and business law as exemplified by the official accounting pronouncements of the AICPA and FASB. (Fall, Spring)

ECONOMICS

ECON 213. Survey of Economics (C-2) 3 hours

A course designed for the general education student. It provides an understanding of the United States' mixed economy through a study of the market system, the role of money, the government's fiscal policy, and the impact of the foreign sector. This course does not apply on a major in accounting or management. No credit is available if ECON 224 or 225 has been taken. (Spring)

ECON 224, 225. Principles of Economics (C-2) 3,3 hours

A survey course in the fundamentals of economics; the institutions, forces, and factors affecting production, evaluation, exchange, and distribution of wealth in modern society. (Fall, Spring)

ECON 314. Money and Banking 3 hours

Prerequisite: ECON 224.

Mediums of exchange, money and credit, banks and their services, the Federal Reserve System, and other financial institutions are considered. (Spring)

ECON 324. Comparative Economic Systems (C-2) (W) 3 hours

A study of the characteristics and functions of economic systems. Analysis of alternative patterns of economic control, planning and market structure. Consideration of their theories and philosophies. This course is taught in alternate years. (Fall)

ECON 328. Managerial Economics 3 hours

Prerequisite: ECON 213 or ECON 225.

The examination of the economic environment within which the business firm makes the decisions, and the application of principles and theories of economics in managerial decision making. (Spring)

BUSINESS ADMINISTRATION

BUAD 128. Personal Finance (F-2) 3 hours

A course in basic economic concepts and business terminology and practices designed to provide the techniques to manage personal finances. Budgeting, consumerism, insurance, home ownership, and investments are included in the topics covered. (Fall, Spring, Summer)

Business Administration

70

BUAD 215. Statistics 3 hours

Prerequisite: MATH 104 or an ACT mathematics standard score of 22 or above.

See Mathematics Department course listing. (Fall, Spring, Summer)

BUAD 231. General Administration of the Long-Term Care Facility 3 hours

A study of management tools and techniques including theories of organization and management, mechanisms for planning, organizing, directing, and controlling. Includes review of licensing requirements, insurance, business law, human relations, public relations. (Summer)

BUAD 232. Technological Aspects of Long-Term Care 3 hours

A detailed study of the technical aspects of long-term care administration including a review of the history and philosophy of facilities, the relationship to other health care facilities in the total health care delivery system, and technically related medical relationships and services. (Summer)

BUAD 234. Financial Management of the Long-Term Care Facility 3 hours

A review of techniques and interpretation of financial information for management decision-making in the long-term care facility. (Summer)

BUAD 235. Health Planning, Regulation, and Legislation 3 hours

A detailed course covering the planning for delivery of health services both at the systems level and at the organizational level. Implications of legislation to providers of health services: current policies, practices, and regulations including their financial impact. Includes contemporary issues in health care administration, financing, organization, delivery, regulation, development and improvement of standards, and allocations of resources. (Summer)

BUAD 253. Real Estate Fundamentals 3 hours

A study of real estate fundamentals including financing real estate, terminology in real estate transactions, origination and processing of loans, appraising fundamentals, and credit underwriting as each applies to single family properties and to commercial properties. (Fall)

BUAD 314. Quantitative Methods for Business Decisions 3 hours

Prerequisite: BUAD 215.

Linear programming—simplex method, primal/dual interpretation, transportation problems. Decision theory under classical and Bayesian statistics. Game theory, inventory models and control, queuing theory. Program Evaluation and Review Technique (PERT). (Spring)

BUAD 315. Business Finance (W) 3 hours

Prerequisite: ACCT 211:212.

A study of the fundamental principles of financial organization. Emphasis on instruments of finance, policies of capitalization, problems pertaining to working capital, and corporate expansion and reorganization. (Fall)

BUAD 326. Introduction to Marketing**3 hours**

A study of the nature and functions of marketing. Includes marketing institutions, basic problems in the marketing of commodities and services, price policies, and competitive practices. (Spring)

BUAD 334. Principles of Management**3 hours**

A beginning course designed to study business management including an analysis of business policies viewed from the standpoint of the functional characteristics of the management process and current ethics. (Fall)

BUAD 337, 338. Business Law**3,3 hours**

A course designed to study the nature and social functions of law including social control through law and the law of commercial transactions and business organizations. (Fall, Spring)

BUAD 344. Personnel Administration**3 hours**

An introduction to the organization, training, motivation, and direction of employees with a view to maintaining their productivity and morale at high levels. Among topics covered are selection, training, compensation and financial incentives, work standards, techniques of supervision and leadership. (Fall, Spring)

BUAD 347. Business and Government**3 hours**

A study of the ways in which business and economic life are shaped and directed by government. The legal framework within which business is conducted and the evolution of public policy toward business are examined. (Fall)

BUAD 353. Management of a Small Business**3 hours**

A course on the principles and problems of organizing and operating a small business. Topics covered will include a procedural system for establishing a new business, providing physical facilities, financing, organizing, and the management of the small business. (Spring)

BUAD 355. Organizational Behavior**2 hours**

This course examines the nature and consequences of human behavior in work organizations. Primary emphasis is placed on the interaction between employee needs and organizational requirements, and on the role of management in facilitating mutual goal attainment. Topics covered include: individual differences, perception and attitude formation, motivation, job design, group processes, conflict, leadership, decision making, and change and development processes. (Spring)

BUAD 414. Business Policies (W)**3 hours**

Prerequisite: BUAD 334.

This course of study is designed to give the student experience in decision-making and problem-solving through the case method. The attention of the student is directed to defining, analyzing, and proposing alternative solutions to business problems from management's viewpoint. (Spring)

Office Administration

72

BUAD 425. Investment Analysis (W)

3 hours

Prerequisite: ACCT 121.

A practical, as well as a theoretical, approach is taken for the potential investor of institutional or personal funds through the use of problems, readings, and cases. Topics covered will include stocks and bonds in the security market, real estate, and fixed equipment investments. (Spring)

BUAD 488. Seminar in Business Administration

1 hour

This course will include the Eugene Anderson Lecture Series in business. Top men in their field will present lectures in insurance, real estate, finance, retailing, production management, etc. Attendance at ten lectures will be required. This course may be repeated for credit. (Spring)

BUAD 295/495. Directed Study

1-2 hours

Individual research work open only to business majors. Content to be arranged. Approval must be secured from Division Chairman prior to registration. (Fall, Spring)

BUAD 497, 498. Long-Term Care Administration

Internship

4,4 hours

A tailored program of management experience in a selected long-term care facility will include 400 clock hours of on-the-job experience. (Fall, Spring)

(C-2), (F-2), (G-2), (W) See pages 19-22.

OFFICE ADMINISTRATION

Major: Business Education: Forty-eight hours for the Bachelor of Science degree, including SECR 104, 114, 213, 214, 215, 216, 315, 317; ACCT 121:122; ECON 213 or 224; BUAD 337; SECR 355 or BUAD 334, plus seven additional upper division hours in Office Administration, Business Law, Marketing, or Personnel Administration. Cognate requirement: CPTR 101 or 125.

Those students wishing to receive teacher certification in Business Education must also satisfy the professional teacher education requirements. (See Education listing.)

Minor: Office Administration: Eighteen hours including SECR 214 and fifteen hours from courses in Office Administration, six of which must be upper division.

ASSOCIATE OF SCIENCE DEGREE IN OFFICE ADMINISTRATION

Two-year Associate Science degree majors in Office Administration with ACT scores below 22 in Math may fulfill general education requirement (A-2) with SECR 218 (Business Math and Calculating Machines). Those with scores below 12 must take MATH 100.

Major: Office Administration/Shorthand Option: Thirty-one hours for the Associate of Science degree, including SECR 104, 114, 115, 213, 214, 215, 216, 218, 317, 315 or 316* or 455**. Cognates required: ACCT 121.

*Those students who also elect the Medical Secretary emphasis must take BIOL 105 and SECR 326.

**Those students who also elect the Legal Secretary emphasis must take BUAD 337 and SECR 326.

Major: Office Administration/Non-Shorthand Option with chosen emphasis of Business, Medical, or Legal: Thirty hours for the Associate of Science degree, including SECR 115, 203, 213, 214, 216, 218, 317, 326, 315* or 316** or 455***; CPTR 101 or 125; plus two hours of electives in Office Administration. Cognate required: ACCT 121.

*Required for students who elect the Business emphasis.

**Students who elect the Medical Secretary emphasis must take BIOL 105.

***Students who elect the Legal Secretary emphasis must take BUAD 337.

Teaching Endorsement: The student must earn a major in the subject area of his first teaching field. He may add the following endorsements by meeting the number of hours indicated below.

Secretarial Practice

ACCT 121	Principles of Accounting	3 hours
ECON 224 or ECON 225	Principles of Economics	3 hours
SECR 105	Beginning Typewriting	2 hours
SECR 115	Intermediate Typewriting	2 hours
SECR 214	Advanced Typewriting	2 hours
SECR 114	Shorthand II	4 hours
SECR 215	Shorthand III	5 hours
SECR 217	Secretarial Procedures	3 hours
	Two of the following three areas for a total of	6 hours
BUAD 337 or 338	Business Law (3)	
BUAD 128	Personal Finance (3)	
SECR 315	Business Communications (3)	

TOTAL 30 hours

Business Machines

ACCT 121	Principles of Accounting	3 hours
ECON 224 or 225	Principles of Economics	3 hours
SECR 218	Business Mathematics and Calculating Machines	2 hours
	Business electives	4 hours
	Two of the following three areas for a total of	6 hours

Office Administration

74

BUAD 337 or 338	Business Law (3)	
BUAD 128	Personal Finance (3)	
SECR 315	Business Communications (3)	
	TOTAL	18 hours

Clerical or Office Practice

ACCT 121	Principles of Accounting	3 hours
ECON 224 or 225	Principles of Economics	3 hours
SECR 217	Secretarial Procedures	3 hours
	Business elective	3 hours
	Two of the following three areas for a total of	6 hours
BUAD 337 or 338	Business Law (3)	
BUAD 128	Personal Finance (3)	
SECR 315	Business Communications (3)	
	TOTAL	18 hours

Shorthand

ACCT 121	Principles of Accounting	3 hours
ECON 224 or 225	Principles of Economics	3 hours
SECR 114	Shorthand II	4 hours
SECR 215	Shorthand III	5 hours
	Two of the following three areas for a total of	6 hours
BUAD 337 or 338	Business Law (3)	
BUAD 128	Personal Finance (3)	
SECR 315	Business Communications (3)	
	TOTAL	21 hours

Typewriting

ACCT 121	Principles of Accounting	3 hours
ECON 224 or 225	Principles of Economics	3 hours
SECR 105	Beginning Typewriting	2 hours
SECR 115	Intermediate Typewriting	2 hours
SECR 214	Advanced Typewriting	2 hours
	Two of the following three areas for a total of	6 hours
BUAD 337 or 338	Business Law (3)	

BUAD 128
SECR 315

Personal Finance (3)
Business Communications (3)

TOTAL 18 hours

Before the end of the sophomore year, the student must apply to the Division of Education and Human Sciences for admission to the Teacher Education Program. Before the end of the junior year, the student must apply to the Division of Education and Human Sciences for admission to the professional semester.

OFFICE ADMINISTRATION

SECR 104. Shorthand I (G-2)

4 hours

This course presents the fundamental principles of Gregg Shorthand, Diamond Jubilee Series, using the individual progress method. Reading and writing of shorthand outlines and longhand transcription are emphasized. Five class periods a week. (Fall)

SECR 105. Beginning Typewriting (G-2)

2 hours

Five class periods each week. One hour of laboratory a week is required. Basic keyboard fundamentals; development of manipulative techniques; development of speed and accuracy on straight copy material and problems; introduction to business letters; simple tabulation. For students with no previous training in typewriting. Students with one year of high school typewriting receive no credit. Thirty-five words a minute for five minutes is required. (Fall, Spring)

SECR 106. Typewriting Production and Review

1 hour

Prerequisite: One year of high school typing or equivalent.

Second nine weeks of semester. Development of speed and accuracy on straight copy and problems; review of simple business letters, tabulation, and basic typing skills. (Fall, Spring)

SECR 114. Shorthand II (G-2)

4 hours

Prerequisites: SECR 105 or high school equivalent, and SECR 104 or consent of instructor.

A continuation of individual progress instruction in which students progress at their own rates in building shorthand skill. Transcription on the typewriter is introduced with increased emphasis on speed building. Five class periods a week. (Spring)

SECR 115. Intermediate Typewriting (G-2)

3 hours

Prerequisite: SECR 105 or equivalent.

Three class periods plus additional laboratory time each week. Continuation of SECR 105; improvement of basic skills; business letter production; tabulated reports; manuscripts; special business forms. (Students with two years of high school typewriting receive no credit.) (Fall, Spring)

Office Administration

76

SECR 203. Business English

3 hours

Prerequisite: ENGL 101:102.

An intensive study of elementary grammar, punctuation, vocabulary, spelling, and word usage as necessary tools for effective written and spoken communication. (Fall)

SECR 213. Records Management

2 hours

Basic principles and procedures of control and storage of records. A simulation involving a study of rules for alphabetic filing and projects on five methods of filing. A study of the criteria by which records are created, stored, and transferred. (Fall, Spring)

SECR 214. Advanced Typewriting (G-2)

3 hours

Prerequisite: SECR 115 or equivalent.

Three class periods plus additional laboratory time each week. Preparation of final copy from rough drafts; typing of financial statements; complex statistical and tabulated reports, and representative problems from technical and professional offices. (Fall, Spring)

SECR 215. Shorthand III and Transcription

4 hours

Prerequisites: SECR 114 and 214.

Additional development of shorthand skill with emphasis on theailable transcript. Includes speed building, with minimum speed requirement at 90 words per minute for three minutes with 95 percent accuracy. Five class periods a week. (Fall, Summer)

SECR 216. Word Processing

3 hours

Prerequisite: ENGL 101:102 and SECR 214.

Development of skill in using voice transcribing machines, memory typewriters, and duplicating equipment of master and stencil processes. (Fall, Spring)

SECR 218. Business Mathematics and Calculating Machines (G-2)

2 hours

Prerequisite: MATH 100 or ACT score of 12 or above.

The electronic calculator is used to solve common business problems which include: basic arithmetic operations, fractions, percentage, interest, discounts, merchandising, payrolls, depreciation and the use of credit. (Fall, Spring, Summer)

SECR 219. Offset and Printing Operations

2 hours

This is a "hands-on" approach to the lithographic offset process. The laboratory will give the student actual operating experience with process stripping, plate making, and a variety of offset press equipment. One hour of lecture and three hours of laboratory each week. (Fall, Spring)

SECR 315. Business Communications (W)

3 hours

Prerequisite: ENGL 101:102.

A study and application of the modern practices in oral and written business communications. Accuracy in grammar, spelling, and punctuation, and the

writing of well-knit sentences and clear paragraphs are taught as a means of effective expression in business-letter writing. (Fall, Spring)

SECR 316. Medical Terminology **3 hours**

Prerequisite: SECR 214; BIOL 105.

A study of medical terms—their pronunciation, spelling, and meaning, and their application to medical secretarial work. Open only to students who are enrolled in a medical emphasis program. (Fall)

SECR 317. Secretarial Procedures **3 hours**

Prerequisite: SECR 213; 214; 215 or previous or current enrollment in 326.

An integration of skills learned in previous secretarial courses, together with emphasis on decision-making ability, judgment, business ethics, and initiative used in the secretarial profession. Lectures/simulations. (Spring)

SECR 326. Advanced Voice Transcription **3 hours**

Prerequisite: SECR 214; 216.

Continued skill and knowledge in the use of voice transcribing equipment and its function in business offices, with one emphasis chosen: medical, legal, or business. Two class periods, two laboratories per week. (Spring)

SECR 355. Business and Office Management (W) **3 hours**

Major emphasis is placed on application of business management principles to the problems of the businessman and on the organizing of business and secretarial offices. Attention is given to the training of office employees, selection of equipment, and flow of work through the office. Taught in alternate years. (Spring)

SECR 455. Legal Procedures and Terminology **3 hours**

Pre- or Co-requisite: SECR 214.

A course designed to acquaint students with legal terminology, the preparation of legal documents, court procedures and management of the legal office. Open only to students who are enrolled in a legal emphasis program. (Fall)

SECR 465. Applied Office Practice **1-2 hours**

Open only to Office Administration B.S. seniors. A practicum in which students are placed in office situations, during which time jobs pertaining to an executive secretarial position are experienced. Previous registration and permission from instructor must be completed before work experience credit is given.

SECR 295/495. Directed Study **1-2 hours**

Open only to majors in Office Administration. Research studies relating to the field of Office Administration are assigned according to the experience and interests of the student. Length of project determines credit.

EDUCATION

EDUC 438. Methods of Teaching Business **2 hours**
Prerequisite: Admission to Teacher Education.
Attention is given to methods and materials of instruction, planning, testing, and evaluating student performances, the survey and evaluation of textbooks. Four lectures each week of the first half of the first semester during the senior year. (Spring)
(G-2), (W) See pages 19-22.

DIVISION OF EDUCATION AND HUMAN SCIENCES

Chairman: Cyril Roe

Behavioral Science

John Baucom
Brad Davis
Ed Lamb
Steven Zimmerman

Education

Melvin Campbell
Desmond Rice
Cyril Roe
Jeanette Stepanske

Home Economics

Thelma Cushman
Roy Dingle
Earl Evans
Sue TeHennepe
Alice Williams

Library Science

Peggy Bennett
Charles Davis
Loranne Grace

BEHAVIORAL SCIENCE

The student of human behavior may span the full scope of endeavor open to mankind—mental, physical, and spiritual. He perceives man as once perfect, but now fallen from his original state. Through experimentation, field study, review, and the aid of the Holy Spirit, the behavioral scientist becomes better able to predict and understand individual and group behavior. Always uppermost in his goals is the proper stewardship of the wisdom flowing from the mind of God.

Those who anticipate employment or graduate study in guidance, law, occupational therapy, personnel work, psychology, social work, sociology or anthropology should consider a major in a Behavioral Science emphasis or Psychology. Those interested in becoming school counselors or dormitory deans will want to certify in a teaching field and take EDUC 355. Registered nurses should find a major in Behavioral Science a timely preparation for public health or psychiatric nurses' work. In most cases, to achieve a professional level in these fields the student must seriously consider further preparation at the graduate level.

Behavioral Science

80

Major: Thirty hours for the Bachelor of Arts in Psychology, including PSYC 124, 224 or 225, 326, 385, 415, 465, and 484. Cognate requirements are BHSF 215, 356, and three hours in biology (BIOL 227 strongly recommended). Students planning for graduate study in psychology are urged to take beyond the basic 30 hours required.

Major: Forty-five hours for the Bachelor of Science degree in Behavioral Science with a 23-hour emphasis in Family Studies, Psychology, Social Work, or Sociology, including core requirement courses BHSF 115, 356, 394, 485; PSYC 124, 126, 315; SOCW 221, 222; SOCI 125, 223, 424. Cognate requirements are three hours in biology and three hours in economics. Besides these, further requirements for the specific emphases in the Behavioral Science major are:

Family Studies emphasis: This emphasis includes PSYC 127; SOCI 295 or 495, 365; HMEC 147, 201, 202. Remaining course-work will normally be chosen from the following courses: NRSG 204; PSYC 225, 367, 377; SOCW 375, 485.

Social Work emphasis: This emphasis includes SOCW 314, 435 (maximum hours), and 295 or 495.

Sociology emphasis: This emphasis includes SOCI 427 and 295 or 495.

The student contemplating graduate study should take as many hours as possible in the area of his emphasis.

Minor: Behavioral Science. Eighteen hours selected from any Behavioral Science areas and including PSYC 124, SOCW 221, and SOCI 125, with a minimum of six hours of upper division Behavioral Science classes.

Minor: Family Studies. Eighteen hours including HMEC 147, 201, 202, SOCI 365, PSYC 126, 127, and five hours to be selected from the following: SOCI 223, SOCI 495, SOCW 375, SOCW 485, HMEC 146, HMEC 415, NRSG 204.

Minor: Psychology. Eighteen hours including PSYC 124, 126, 225, 315, and 385.

Minor: Sociology. Eighteen hours including SOCI 125, 424, and 427.

BEHAVIORAL SCIENCE FOUNDATIONS

BHSF 115. Orientation to the Behavioral Sciences

1 hour

An examination of career choices, training requirements, employment trends in the behavioral sciences. Career and academic guidance will be provided for each student. Some visitations and interviewing asked of students. (Fall, Spring)

BHSF 215. Statistics**3 hours**

Prerequisite: MATH 104 or an ACT mathematics standard score of 22 or above.

See Mathematical Sciences course listing. (Fall, Spring, Summer)

BHSF 356. Tests and Measurements**2 hours**

An evaluation of classroom learning and teacher-made tests as well as an overview of selected ability, achievement, interest, and personality tests. Principles of effective test construction and selection are studied, particularly as they apply to sampling, validity, reliability, and norming. (Fall, Spring)

BHSF 394. Research Methods**3 hours**

An introduction to common research design and methodology in laboratory and non-laboratory settings. Both experimental and field research designs and analysis techniques will be included. (Fall)

BHSF 485. Behavioral Science Seminar**1 hour**

Prerequisite: BHSF 394.

A discussion of problems and issues related to the behavioral sciences. One hour discussion each week with individual students assigned primary report responsibilities for each class period. A term report/paper is required. Open only to Behavioral Science and Psychology majors during their junior or senior year. (Fall, Spring)

PSYCHOLOGY

PSYC 123. Life Planning and Adjustment**2 hours**

The student is helped to explore personal needs, motivation, and coping patterns in relation to making decisions, setting goals, and choosing a career. Standardized tests and self-paced instruction may be employed as means for clarifying personal values and identifying applicable occupational fields. (Fall, Summer)

PSYC 124. Introduction to Psychology (F-1)**3 hours**

A beginning course in the basic principles and concepts of psychology. Attention given to the concepts of Christian psychology. Recommended as a preliminary to other courses in the field. (Fall, Spring)

PSYC 126. Developmental Psychology I (F-1)**2 hours**

A basic course in growth and development. Examines the prenatal and newborn periods, infancy, early and late childhood. Stresses such topics as natural childbirth, bonding, and breastfeeding. Child observation required. (Fall, Spring)

PSYC 127. Developmental Psychology II (F-1)**2 hours**

The course closely examines the life stages from youth through old age. Because medical progress has extended human life expectancy, attention is focused upon the psychological influence of home/institution environment on the aging process. Observation for an appropriate stage of development or decline is required. (Fall, Spring)

Behavioral Science

82

PSYC 224. Social Psychology (F-1) 3 hours

Study of human behavior as affected by group living. Dynamics of groups, social roles, communication, and mass behavior are focuses of consideration. Credit applicable for either psychology or sociology emphasis, but not for both. (Spring)

PSYC 225. Psychology of Personality (F-1) 3 hours

A systematic study of the development, dynamics, and structure of personality. Methodology and theory are studied in relation to personality development. (Fall)

PSYC 233. Human Sexuality in the Christian Context (F-1 or 2) 3 hours

A study of human sexual behavior, relationships, and values as reflected in the Christian cultural setting.

PSYC 315. Abnormal Psychology (F-1) 3 hours

Prerequisite: PSYC 124 or 126.

A study of the etiology of pathological behavior and the factors of good adjustment and mental health. (Spring)

PSYC 326. Physiological Psychology 3 hours

This course focuses on the physiological substrates of behavior. Specific attention is given to the physiological basis of learning and motivation, sensation, emotion, neural encoding, and sleep. Further analysis of the structural and functional organization of the brain and nervous system. (Fall)

PSYC 344. Personnel Administration 3 hours

(See Business and Office Administration Division listings.)

PSYC 367. Adolescent Psychology (F-1) 2 hours

The determinants and implications of behavioral characteristics and developmental patterns during adolescence. Content will include the psychological and social dynamics underlying the attempted resolution of crises and tasks specific to adolescents in modern society. (Fall, Spring)

PSYC 377. Fundamentals of Counseling (F-1) 3 hours

Recommended: One course in Psychology.

This is an introduction to the major theories and practices of individual counseling. The dynamics of the helping relationship are analyzed. (Fall)

PSYC 385. Religious Psychology (F-1) 3 hours

Examination of the philosophical assumptions of modern science and modern psychological theory. The evaluation of various personality and counseling theories in light of the Christian image of man. Covers religious motivation, religious experience, religiosity, nonbelief, the nature and reality of the spiritual, and the importance of absolutes. Includes applications of Biblical psychology to Christian counseling. (Spring)

PSYC 415. History and Systems of Psychology (F-1), (W) 3 hours

Prerequisite: PSYC 124.

Philosophical and historical backgrounds of psychology leading to a consideration of contemporary schools and systems of psychology. (Spring)

PSYC 425. Psychology of Learning 2 hours

A review of the current theories and principles related to both learning and teaching. Advanced analysis of human problem-solving, thinking, reasoning, and other correlates of human cognition processes. (Spring)

PSYC 465. Topics in Psychology 3 hours

Selected topics in psychology in the classroom and/or laboratory setting. This course may be repeated for credit with an appropriate change in topics.

PSYC 484. Experimental Psychology (F-1) 4 hours

Prerequisites: BHSF 215.

The application of experimental methods of research in psychology. Selection of a topic, literature review, design, and data collection. Proposals and independent student research projects required. Three lectures and one laboratory per week. (Spring)

PSYC 495. Directed Study (F-1), (W) 1 hour

Prerequisite: PSYC 484.

Individual research work open only to psychology majors or behavioral science majors. Approval must be obtained from the division head prior to registration. (Fall, Spring)

SOCIAL WORK

SOCW 221. Social Welfare I (F-1) 3 hours

An introduction to the field of social welfare. Programs are viewed from both historical and philosophical perspectives. An examination of agencies and organizations in which social work is practiced. Off-campus visits to several agencies are required. (Fall)

SOCW 222. Social Welfare II (F-1) 3 hours

Prerequisite: SOCW 221 or permission of the instructor.

The impact of cultural, economic, political and social forces upon social welfare policies and programs is analyzed. An overview of intervention models and methods. (Spring)

SOCW 295/495. Directed Study 1-3 hours

Prerequisite: SOCW 221 or permission of the instructor.

Study of special topics pertinent to the field of social work. Content will vary among such topics as child welfare, income maintenance, values and ethics of social work practice, etc. The selected topic is pursued for the entire semester. This course can be repeated for credit for a total of not more than three hours credit. (Fall)

Behavioral Science

84

SOCW 314. Social Work Methods I (W)

3 hours

Prerequisites: SOCI 125 and SOCW 221, 222.

A course oriented toward problem-solving technologies used in working with individuals, groups, and communities. Considers resolving social problems through an effective battery of social welfare activities. Diagnostic assessments of the person-problem-situation, ego supportive procedures, and problem-solving processes are emphasized. (Fall)

SOCW 315. Social Work Methods II (W)

2 hours

Prerequisite: SOCW 314.

The study and development of skills in social work methods of group and community organization.

SOCW 375. Introduction to Family Intervention (F-1)

3 hours

Prerequisite: SOCI 223 or SOCI 365 or permission of the instructor.

An introduction to the various theoretical orientations of family intervention. The family is viewed as a unit, with focus on programs and crisis techniques designed to maintain and re-establish family equilibrium. Taught in alternate years.

SOCW 435. Social Work Practicum

4 hours

Prerequisite: SOCW 314.

This course provides opportunity for students to apply the combined techniques of casework, group work, and/or community organization through direct participation in the social service delivery system. Through his participation the student becomes familiar with agency structures, functions, and programs. A minimum of 175 hours will be spent working in an agency setting for each four hours of course credit. Course may be repeated once. (Fall, Spring, Summer)

SOCIOLOGY

SOCI 125. Introduction to Sociology (F-1)

3 hours

A scientific approach to the analysis of the social world. Consideration is given to the dynamic nature of social structures and processes. Special emphasis is given to basic terms. (Fall, Spring, Summer)

SOCI 223. Marriage and the Family (F-2)

2 hours

A course in the ethics of human relationships, including the place of the family in society and the Christ-centered approach to marital and familial conflicts. (Fall, Spring)

SOCI 224. Social Psychology (F-1)

3 hours

(See Psychology area listings.)

SOCI 233. Human Sexuality in the Christian Context (F-1 or 2)

3 hours

A study of human sexual behavior, relationships, and values as reflected in the Christian cultural setting.

SOCI 295/495. Directed Study (F-1)**1-3 hours**

Prerequisite: SOCI 125 or permission of the instructor.

Study of special topics pertinent to the area of sociology. Content will vary among such topics as the sociology of women, social conflict and change, Black America, the sociology of education, etc. The selected topic is pursued for the entire semester. This course can be repeated for credit for a total of not more than three hours credit. (Spring)

SOCI 328. The Community (F-1)**3 hours**

Examination of the social structure and interaction patterns of communities, both rural and urban. The history of community development, particularly urbanization and its effect on society. (Fall, odd years)

SOCI 356. Minorities in America (F-1) (W)**3 hours**

(See History listings under Division of Arts and Letters.)

SOCI 365. Family Relations (F-2)**3 hours**

A sociological analysis of family structures and functions. Attention will be given to courtship, family organization and interaction, family disorganization and reorganization, and the post-parental family. Emphasis will be given to findings of recent family studies. (Fall, even years)

SOCI 374. Criminology (F-1)**3 hours**

This course emphasizes the scientific study of crime as a social phenomenon, of criminals, and of penal treatment. The relationship of law and crime to other trends in the social order. Research in prevention and treatment of crime. (Fall)

SOCI 424. Contemporary Social Problems (F-1) (W)**3 hours**

Attention is given to the major forces shaping cultural and subcultural changes today. Changes are particularly viewed as to their effectiveness in bringing about group and mass adjustment. (Spring)

SOCI 427. Sociological Theory Development (F-1), (W)**2 hours**

Prerequisite: SOCI 125.

This course focuses on the emergence of sociology as a systematic discipline. A critical analysis of sociological theory is made from 1850-1920, including Comte, Tocqueville, Spencer, Marx, Weber, Durkheim, Simmel, and Pareto. (Spring)

(F-1), (F-2), (W) See pages 19-22.

EDUCATION

College Methods and Student Teacher Supervisors: Joyce Cotham, Charles Davis, Robert Garren, Floyd Greenleaf, Duane Houck, Wayne Janzen, Wilma McClarty, Donald Moon, Robert Morrison, Helmut Ott, Marvin Robertson, Brian Strayer, Sue TeHennepe, Charles Zuill.

Education

86

The teacher education programs are founded upon a liberal arts demand for breadth and depth of knowledge and experience and on the idea that a teacher should be a good example in health, intellect, and character.

The Education program offers courses leading to the Bachelor of Science in Elementary Education with an optional endorsement for kindergarten teaching. Furthermore, in cooperation with other subject areas, the following secondary certification programs are available: Art, Bible, Business (Office Administration), English, Foreign Languages, Health and Physical Education, History, Home Economics (non-vocational), Industrial Arts, Mathematics, Music, and Science (Biology, Chemistry, and Physics).

Tennessee endorsement for School Librarian is available to all certified teachers.

The National Teachers Examination (NTE) is required for certification. It is necessary that teacher education students apply at the Testing and Counseling office to take the core battery and specialty areas of this examination during the last semester of the senior year.

ASSOCIATE OF SCIENCE

Major: Child Care Administration: Twenty-four hours including BUAD 128, EDUC 123, 133, 216, 230 or 231, 240, 275; FDNT 126, 127; HLED 203; HMEC 201, 202; general education and other electives to make a total of 64 semester hours.

Child Care Administration A.S. degree requirements in general education:

- A. *Basic Academic Skills:* 9 hours
ENGL 101, 102
MATH 103
- B. *Religion:* 6 hours
RELT 155
RELT 238
- C. *History:* 6 hours
HIST 154, 155, or GEOG 204
- D. *Language, Literature, Fine Arts:* 6 hours
ENGL 213, 214, 215, or 216
- E. *Natural Sciences:* 6-8 hours with lab, with two areas represented below: Biology, Chemistry, or Physics electives with lab.
- F. *Behavioral, Family, Health Sciences:* 3 hours
(Plenty with 24-hour major) plus HLED 173
- G. *Activity Skills:* 3 hours
(FDNT 126, 127 already required)

Accreditation

SC's programs in teacher education are approved by the Tennessee State Board of Education, the Department of Education of the General Conference of Seventh-day Adventists, the American Association of Colleges for Teacher Education, and the National Council for Accreditation of Teacher Education (NCATE).

SC's teacher education programs prepare the individual for certification to teach in North American Seventh-day Adventist schools and public schools.

The student who completes SC's approved program and is recommended for certification will have indicated on the transcript that his program was NCATE approved. This recognition provides virtually automatic certification in the following states:

Alabama	Maine	Pennsylvania
Arizona	Maryland	Rhode Island
Arkansas	Massachusetts	South Dakota
Colorado	Minnesota	Tennessee
Delaware	Mississippi	Texas
Florida	Missouri	Utah
Georgia	Nebraska	Vermont
Illinois	North Carolina	Washington
Indiana	North Dakota	West Virginia
Iowa	Oklahoma	
Kentucky	Oregon	

Each student will be responsible for determining additional courses required for certification in any state not listed above.

Application for state and denominational certification is made through the Teacher Certification Officer in the Division of Education and Human Sciences. To be eligible for certification the teacher education student must always meet the most current Tennessee certification requirements.

Aims

Courses in Education are offered to provide the necessary professional preparation to meet certification requirements for public and church-related kindergarten, elementary, and secondary classroom teaching, to afford a general understanding of the school as a social institution for those entering services other than teaching, and to serve as preparation for graduate programs.

Requirements

The criteria for admission to Teacher Education, outlines of teaching majors in secondary education, and policies and procedures related to

student teaching may be obtained from the Division Secretary in Summerour Hall. Outlines of teaching majors in secondary education are also listed in the CATALOG under the respective academic divisions.

I. ADMISSION TO THE TEACHER EDUCATION PROGRAM

- A. Before the end of the sophomore year, the student will file a formal application. This applies to both elementary and secondary teacher education candidates. Transfer students later than the sophomore year will file an application the first semester in residence.
- B. Teacher education institutions are charged with the responsibility of assuring that students approved for entrance into teacher preparation programs demonstrate competency in the verbal and quantitative skills at an approved performance level. As a requirement for admission to the Teacher Education Program, all students must demonstrate this competency by obtaining a specific score on a standardized test approved by the State Board of Education (ACT composite of 17+).
- C. The Education faculty evaluate the candidates and recommend them to the Teacher Education Council. The Council will then admit competent individuals. To qualify, applicants must:
 1. Be in residence at the College.
 2. Have an overall grade point average of 2.25.
 3. Completed ENGL 101:102 with a minimum of C-.
 4. Show evidence of physical, mental, and moral fitness.
 5. Indicate professional commitment at time of interview with the Education faculty.
 6. Have successfully completed the following classes: EDUC 123 and 133.
 7. Have an ACT composite of 17+, or taken and passed the California Achievement Test (CAT) as a qualifying examination for entrance to the Teacher Education Program.
 8. Have taken the 16-Personality Factor Questionnaire.

II. ADMISSION TO PROFESSIONAL SEMESTER

- A. A formal application must be filed with the Division Chairman prior to the end of the junior year. A later application may delay the student teaching experience.
- B. Applicant's qualifications:
 1. Before applicants may be admitted to the professional semester, they must have completed all lower division professional education courses, plus at least 8 hours in methods courses for the elementary school majors.

2. Elementary education applicants must have a grade point average of at least 2.5 in the professional core and a 2.25 grade point average in required non-major subjects.

Secondary teacher education applicants must have a minimum grade point average of 2.5 in the professional core subjects and a minimum grade point average of 2.5 for subject area endorsements both overall and at SC.

3. All applicants must give evidence of good physical and mental health.
 4. All applicants must adhere to the standards and objectives of Southern College and the teacher education program.
 5. All applicants must be approved by action of the Education faculty and the Teacher Education Council.
- C. The student will be informed in writing as to his status in the teacher education program.

III. RETENTION IN THE TEACHER EDUCATION PROGRAM

- A. The progress of each prospective teacher will be reviewed after each nine-week period by the Division Chairman or a delegated member of the Education faculty.
 1. Criteria include:
 - a. Adequate academic progress including maintenance of the academic standard required for admission to the teacher education program.
 - b. Consistent personal representation of the standards and objectives of Southern College and the teacher education program.
- B. The teacher education faculty reserves the option to disqualify a person at any point in his teacher education program if it becomes evident that standards for admission are not being upheld. The student has the right to appeal any such decision through the Teacher Education Council with the Academic Dean in consultation.
- C. The required courses for graduation may be altered during the student's program at any time to meet revised certification standards of either the denomination or the state.

ELEMENTARY EDUCATION

1. Professional Education Requirements:

EDUC 123 Orientation to Teaching	1 hour
EDUC 133 Principles and Organization of Education .	3 hours
EDUC 217 Psychological Foundations of Education ..	3 hours

Education

90

EDUC 230	Elementary Methods in Curriculum and Instruction: Art	
	or	
EDUC 231	Elementary Methods in Curriculum and Instruction: Music	2 hours
EDUC 240	Education for Exceptional Children and Youth	2 hours
EDUC 332	Teaching of Reading	2 hours
EDUC 333	Developmental Reading	2 hours
EDUC 356	Tests and Measurements	2 hours
EDUC 425	Foundations of American Education	3 hours
EDUC 443	Classroom Competencies	3 hours
EDUC 453	Mathematics Methods in the Elementary School	2 hours
EDUC 454	Science and Health Methods in the Elementary School	2 hours
EDUC 455	Bible Methods in the Elementary School	2 hours
EDUC 456	Language Arts Methods in the Elementary School	2 hours
EDUC 457	Social Studies Methods in the Elementary School	2 hours
EDUC 467	Student Teaching, 1-8	8 hours

2. Required Cognates:

HLED 203	Safety Education	2 hours
GEOG 204	World Geography	3 hours
LIBR 325	Library Materials	3 hours
ENGL 218	Advanced Grammar	3 hours

3. Endorsements—Elementary Education Majors:

A. Kindergarten: Students desiring a kindergarten endorsement must include in their program of studies EDUC 426, 466, and PSYC 126.

B. School Librarian: Students certifying in elementary education may receive the School Librarian Tennessee endorsement by including in their program of studies 18 hours of Library Science, LIBR 125, 226, 314, 325, 333, 416, 425.

4. Professional Semester:

One semester of the senior year is a professional semester. Its required curriculum includes two of the following:

First part of the semester:

EDUC 356	Tests and Measurements	2 hours
EDUC 425	Found. of American Education	3 hours
EDUC 443	Classroom Competencies	3 hours

Second part of the semester:

EDUC 467 Student Teaching 8 hours

Because of time commitments during the professional semester, employment will not be permitted and additional course work will be by permission only.

The Education faculty will endeavor to provide the opportunity for student teachers to teach in off-campus student teaching centers.

Correspondence credit will be accepted to the extent of one-fourth of the credit required for the certificate provided that no more than four semester hours in education are applied on the professional education requirement. If personal circumstances demand a correspondence course, a petition must be filed with the Teacher Education Council and its approval obtained before registering for the course. The course must be completed and the grade filed in the Office of Admissions and Records before student teaching is begun.

5. Subject Matter Requirements: Even though the Elementary Education student may elect to take a major and a minor in teaching fields represented in the elementary school curriculum, he or she must also satisfy the following Tennessee requirements for certification:

A. Basic Academic Skills

College Composition 101:102 6 hours
Mathematics 6 hours

- B. Religion 12 hours
Christian Beliefs 155, Adventist Heritage 238 and 6 hours of RELB.

C. History/Political Science/Economics

American History 154, 155 6 hours
World Geography 204 3 hours

D. Language/Literature/Fine Arts

Listening to Music 115 and Art
Appreciation 218 or Humanities 205 4 hours
Literature 6 hours
Speech 3 hours

E. Science

Biology 4 hours
Chemistry 4 hours
Physics or Earth Science 4 hours

F. Behavioral and Family Science

Intro to Sociology 125 or
Family Relations 365 3 hours

Education

92

Health and Life 173	2 hours
Safety Education 203	2 hours

G. Skills

Library Materials for Children 325	3 hours
Physical Education activity courses	4 hours
Physical Education in the Elem. Sch. 463	2 hours

6. In order to meet Seventh-day Adventist certification requirements for elementary (and secondary) teaching the student must also take RELT 155 and RELT 238, plus six additional hours of religion from RELB to meet general education requirements.

SECONDARY EDUCATION

1. Professional Education Requirements: 24 semester hours.
The following are required courses:

EDUC 123 Orientation to Teaching	1 hour
EDUC 133 Principles and Organization of Education	3 hours
EDUC 217 Psychological Foundations of Education	3 hours
EDUC 240 Education for Exceptional Children and Youth	2 hours
EDUC 356 Tests and Measurements	2 hours
EDUC 425 Foundations of American Education	3 hours
EDUC 437 Curriculum and General Methods	2 hours
EDUC 438 Special Methods Grades 7-12	2 hours
EDUC 468 Student Teaching Grades 7-12	6 hours

Students who are planning to be dormitory deans will need to take EDUC 355 and EDUC 415.

2. Professional Semester:
One semester of the senior year is a professional semester. Its required curriculum follows:

First Semester:

Home Economics
Industrial Education
Modern Language
Music
Business and Office Administration
Physical Education

Second Semester:

Art
Bible
English
History
Mathematics
Science

First part of the semester:

EDUC 425 Foundations of American Education	3 hours
EDUC 437 Curriculum and General Methods	3 hours
EDUC 438 Special Methods Grades 7-12	2 hours
EDUC 356 Tests and Measurements	2 hours

Second part of the semester:

EDUC 468 Student Teaching Grades 7-12 (full day) 6 hours

Because of time commitments during the professional semester, employment will not be permitted and additional course work will be by permission only.

The Education faculty will endeavor to provide the opportunity for student teachers to teach in off-campus student teaching centers.

Correspondence credit will be accepted to the extent of one-fourth of the credit required for the certificate provided that no more than four semester hours in education are applied on the professional education requirement. If personal circumstances demand a correspondence course, a petition must be filed with the Teacher Education Council and its approval obtained before registering for the course. The course must be completed and the grade filed in the Office of Records before student teaching is begun.

In order to meet Seventh-day Adventist certification requirements for secondary teaching the student must also take RELT 155 and 238.

ADDITIONAL TEACHING CERTIFICATES

In order for a person to obtain an additional teaching credential, the classwork for that credential may not be completed before the original credential is issued.

1. PROGRAM FOR ELEMENTARY ENDORSEMENT FOR INDIVIDUALS MEETING REQUIREMENTS FOR SECONDARY CERTIFICATION. Eighteen semester hours listed below is required. A minimum of 12 semester hours from these courses must be completed after the date the applicant became eligible for a professional certificate endorsed in a subject area in grades 7-12 or in a subject area in grades K-12.

1. Required Courses:

EDUC 332, Teaching of Reading	2 hours
EDUC 333, Developmental Reading	2 hours
EDUC 453, Mathematics Methods in the Elementary School	2 hours
EDUC 454, Science and Health Methods in the Elementary School	2 hours
EDUC 455, Bible Methods in the Elementary School	2 hours
EDUC 456, Language Arts Methods in the Elementary School	2 hours

2. Four semester hours to include four of the following five areas:

EDUC 230, Elementary Methods in Curriculum and Instruction: Art	2 hours
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EDUC 231, Elementary Methods in Curriculum and Instruction: Music	2 hours
EDUC 457, Social Studies Methods in the Elementary School	2 hours
PETH 463, Physical Education in the Elementary School	2 hours

- 3. Two semester hours must be in Survey of Exceptional Children if not previously successfully completed. If Survey of Exceptional Children or any of the above required courses in Section I or Section II have been previously completed, the remaining semester hours must be taken from the following courses:
 - a. Children's Literature
 - b. Tennessee History
 - c. Health
 - d. Geography
- 2. PROGRAMS FOR SECONDARY ENDORSEMENT FOR INDIVIDUALS MEETING REQUIREMENTS FOR ELEMENTARY EDUCATION CERTIFICATION. Ten semester hours of credit after the date the original certificate was earned. Six semester hours of the ten must be in specialized professional education appropriate to grades 7-12 and must include a minimum of 2 semester hours of appropriate methods. The credit for at least one area of endorsement in grades 7-12 may have been earned at any time prior to the application for adding the endorsement.
 - 1. Meet the State of Tennessee requirements for endorsement in at least one teaching field (this will vary from 18 to 51 hours).
 - 2. A minimum of six semester hours of professional education including:
 - A. EDUC 437 or EDUC 438.
 - B. Any other courses designated by the Division of Education and Human Sciences.
 - 3. Four semester hours of electives in addition to the Elementary Education degree requirements.

3. APPROVED PROGRAM IMPLEMENTATION BY STATE BOARD OF EDUCATION

Procedures for securing SC's recommendation for state certification of students from institutions located out of the state:

- 1. Application is made to the teacher certification officer through the Records Office accompanied by an official transcript and a recommendation from the institution.
- 2. Assessment of deficiencies will be made by the Teacher Certification Officer and approved by the Division and the Teacher Education Council.
- 3. The Teacher Certification Officer will inform the applicant of any deficiencies.

4. A fee of twenty-five dollars (\$25) will be charged for this service, to be refunded upon completion of courses at SC.

COURSES IN EDUCATION

EDUC 123. Orientation to Teaching **1 hour**

An orientation to early childhood, elementary, and secondary teaching. Included will be a weekly seminar and two hours per week of field experiences including visits to schools, observation and participation in the classroom, involvement in school and community environment, introduction to professional literature, and attendance at professional meetings and organizations. The student is required to take all screening tests for admission to the teacher education program, as well as submit the completed application forms. (Fall, Spring)

EDUC 133. Principles and Organization of Education **3 hours**

An overview of the purposes, administrative organizations, and operations of school systems, both public and private.

EDUC 217. Psychological Foundations of Education **3 hours**

A study of the processes of human growth, development, and learning, joined to the practical application of this knowledge to teaching.

EDUC 230. Elementary Methods in Curriculum and Instruction: Art **2 hours**

Prerequisite: Admission to Teacher Education

A study of the aims, philosophy, and methods of teaching art on the various levels of the elementary school. Observation and participation in art activities with elementary students will be scheduled.

EDUC 231. Elementary Methods in Curriculum and Instruction: Music **2 hours**

Prerequisite: Admission to Teacher Education, MUCT 100 (or permission of instructor) or MUHL 115.

A course designed to prepare teachers to direct the music activities in the elementary classroom. The content includes appreciation, singing, playing, and rhythmic activities with attention to current methods including Orff, Kodaly, and movement education. Observation and participation in the music program of the elementary school is required. (Fall, Spring, alternate Summers)

EDUC 240. Education for Exceptional Children and Youth **2 hours**

A course in the education of exceptional children which concerns itself with the wide range of factors contributing to the need for special education and the general plans for caring for these factors. (Fall, Spring, Summer)

EDUC 275. Child Care Practicum **2 hours**

Prerequisite: EDUC 123, 133, 217, 240; HLED 173, 203; BUAD 128.

The student devotes at least 80 hours of on-the-job practice under the

supervision of a certified elementary education director who is managing the child care center. Experiences should include: registration and advertising, program design and management, budgeting, preschool instruction, and parent consultation.

EDUC 332. Teaching of Reading **2 hours**

Prerequisite: Admission to Teacher Education.

Survey of the materials and methods used in teaching reading in the elementary grades. It emphasizes the approaches to teaching reading including phonics instruction. The course involves approximately three hours of supervised practicum along with one hour of lecture each week. (Fall and alternate summers)

EDUC 333. Developmental Reading **2 hours**

Prerequisite: EDUC 332 and Admission to Teacher Education.

A detailed study of the development of vocabulary, comprehension, and study/reference skills in the elementary grades. Causes of reading problems, assessment procedures, and organization of a sound reading program are stressed. (Spring and alternate summers)

EDUC 355. Administrative and Personnel Work of Deans **2 hours**

A basic professional course in the administration of the school home. (Offered on demand.) (Spring)

EDUC 356. Tests and Measurements **2 hours**

(See Behavioral Science Foundations course listing.) (Fall, Summer)

EDUC 415. Secondary School Homes Practicum **2 hours**

Prerequisite: EDUC 355.

This course is designed to provide resident experience in secondary school home administration under the supervision of a successful dean. Usually taken concurrently with student teaching. (Fall, Spring)

EDUC 425. Foundations of American Education (F-1) **3 hours**

Analysis of the historical, social, and philosophical forces influencing American education, with special emphasis on the schools as social institutions.

EDUC 426. Kindergarten Methods **3 hours**

Prerequisites: EDUC 123, 133, 217, 240 and admission to Teacher Education.

Designed to give the student an understanding of administration, program planning, materials, and strategies for teaching in preschool. Emphasis is given to application of the principles of child development and learning to promote harmonious physical, mental, social, and emotional growth. Observation and participation required. (Fall, Spring)

EDUC 437. Curriculum and General Methods, Grades 7-12 **2 hours**

Prerequisite: Admission to Teacher Education.

This course will include the secondary curriculum content—factors that

influence change, the most important current practices, and critical curriculum issues facing educators today. It will provide general knowledge of current teaching methods, strategies of learning, and evaluation procedures. (Fall, Spring)

EDUC 438. Special Methods of Teaching, Grades 7-12 **2 hours**

Prerequisite: Admission to Teacher Education. Course EDUC 437 and EDUC 438 comprise a block and should be taken the same semester.

Student must have completed fifteen semester hours in the teaching area to qualify for admission.

The areas which offer methods courses are: Art, Bible, Business (Office Administration), English, Foreign Language, Health and Physical Education, History, Home Economics, Industrial Arts, Mathematics, Music, Science (Biology, Chemistry, and Physics).

The course will be offered the first half of that semester designated by the student's major department. The class will meet four class periods per week. Directed observation in selected schools and attendance at local professional meetings are considered part of this course.

Among the student's responsibilities will be the collection and organization of a file of teaching materials, the preparation of lesson plans, and evaluation of textbooks. Directed observation in selected schools and attendance at selected local professional meetings are considered a part of the course. (Fall, Spring)

EDUC 443. Classroom Competencies **3 hours**

Prerequisite: Admission to Teacher Education and completion of at least two upper division methods courses.

This course provides opportunity for the student to develop skills and knowledge related to concepts of classroom organization and management, audio-visual aids and techniques, discipline, public relations and ethics. Although all school settings will be considered, emphasis will be given to small schools. Classroom experience may be required. (Fall, Spring, Summer on demand)

EDUC 453. Mathematics Methods in the Elementary School **2 hours**

Prerequisites: EDUC 123, 133, 217, 240 and admission to Teacher Education.

Includes curriculum organization, materials, methods, and instructional aids with emphasis on multi-grade classrooms. Attention is given to the sequential skill development and to changes in the mathematical contents, technology and pedagogy. Observation and micro-teaching required. (Fall, Spring, Summer on demand)

EDUC 454. Science and Health Methods in the Elementary School **2 hours**

Prerequisites: EDUC 123, 133, 217, 240 and admission to Teacher Education.

Includes curriculum organization, methods, materials and equipment with emphasis on multi-grade classrooms. Techniques and materials are examined using basic principles of the scientific method. Observation and micro-teaching required. (Fall, Spring, Summer on demand)

EDUC 455. Bible Methods in the Elementary School 2 hours

Prerequisites: EDUC 123, 133, 217, 240 and admission to Teacher Education.

A course to develop teaching objectives, materials, and strategies in Biblical education with emphasis on the Christ-centered curriculum and integration of faith and learning. Special attention will be given to multi-grade classrooms. Observation and micro-teaching required. (Fall, Spring, Summer on demand)

EDUC 456. Language Arts Methods in the Elementary School 2 hours

Prerequisites: EDUC 123, 133, 217, 240 and admission to Teacher Education.

Curriculum organization, methods, materials and instructional aids with emphasis on multi-grade classrooms. Strategies for instruction in writing, spelling, grammar, literature and composition are developed. Observation and micro-teaching required. (Fall, Spring, Summer on demand)

EDUC 457. Social Studies Methods in the Elementary School 2 hours

Prerequisites: EDUC 123, 133, 217, 240 and admission to Teacher Education.

A course to develop teaching objectives, instructional strategies, materials and methods when integrating social studies, geography and the worldwide mission of the church. Special attention will be given to multi-grade classrooms. Observation and micro-teaching required. (Fall, Spring, and Summer on demand)

EDUC 466. Student Teaching, Kindergarten 2-4 hours

Prerequisites: EDUC 426 and Admission to Professional Semester.

This course is offered the first half of each semester and is available during the summer term to teachers with previous experience if suitable classes can be found. (Fall, Spring, Summer)

EDUC 467. Student Teaching, 1-8 8 hours

Prerequisite: Admission to Professional Semester.

This course is offered each semester and is available during the summer term to teachers with previous experience. The student will be assigned a half-day each week of classroom observation and participation the first half of the semester.

The second half of the semester will be used for full-time student teaching in on-campus or selected off-campus elementary schools. Group conferences of two periods each week will be scheduled. A minimum of two hours credit must be earned in residence.

Student teachers are expected to provide their own transportation to their teaching centers and to follow the school calendars where they are assigned. (Fall, Spring, Summer)

EDUC 468. Student Teaching, Grades 7-12 6 hours

Prerequisite: Admission to Teacher Education, EDUC 217, 437, 438. Music majors must have completed MUPF 479.

This course is offered each semester and the summer session in selected areas. The student teachers will be assigned to the cooperating teacher at the beginning of the semester and will be expected to spend a minimum of three hours per week in observation and participation. These hours will count toward the required student teaching allotment. One-half semester of full time directed observation, participation and full-day classroom teaching is required in on-campus or selected off-campus secondary schools. Conferences of two class periods each week will be scheduled.

A minimum of two hours credit must be earned in residence by degree candidates. Student teachers are expected to provide their own transportation to their teaching centers and to follow the school calendars where they are assigned. (Fall, Spring, Summer)

EDUC 475. Workshop in Education

1-3 hours

Preservice and experienced teachers are given opportunity to work under supervision on curriculum problems. (Fall, Spring, Summer)

EDUC 295/495. Directed Study

1-2 hours

Prerequisite: Admission to Teacher Education.

This course permits the advanced student with adequate preparation to pursue independent study in special fields. (Fall, Spring, Summer)

HOME ECONOMICS

Home Economics programs are designed to prepare men and women for careers dealing with home and family life, food and nutrition, textiles and clothing, and teaching of non-vocational Home Economics in secondary and elementary schools.

Flexibility of programs allows a choice of concentration to fit the preparation needed for the chosen Home Economics profession.

Emphasis is placed upon the Seventh-day Adventist philosophy for home and family living and preparation for professional, church, and community leadership.

All Home Economics programs are planned with a member of the Home Economics faculty. Approval is then considered on an individual basis and is granted on the following conditions:

1. Compliance with graduation requirements as explained elsewhere in the CATALOG.
2. Fulfillment of the professional and individual needs of the student.
3. Embodiment of academic balance and continuity.

Major: Forty hours for the Bachelor of Science degree in Home Economics including FDNT 125, 126, 127, 317, 325; HMEC 146, 147, 148, 164, 165, 166, 201, 202, 349, 415, 485. Cognate requirements: PSYC 127, NRSG 204.

Home Economics

100

Home Economics majors and candidates for secondary certification are encouraged to attend two approved professional meetings each semester.

Minor—*Home Economics*: Eighteen hours, six hours of which must be upper division.

Minor—*Foods and Food Service*: Eighteen hours including six hours of upper division.

Teaching Endorsement Requirements:

Foods and Nutrition courses	8 hours
Textiles and Clothing courses including HMEC 315 ...	8 hours
Home Management courses including HMEC 146	8 hours
<hr/>	
Total 24 hours	



Before the end of the sophomore year, the student must apply to the Division of Education and Human Sciences for admission to the Teacher Education Program. Before the end of the junior year, the student must apply to the Division of Education and Human Sciences for admission to the professional semester.

ASSOCIATE OF SCIENCE DEGREE

Home Economics: The purpose of the two-year curriculum is to prepare the student for a successful family experience as well as for service to his community. All specified courses will apply toward a Bachelor's degree in Home Economics.

Major: Twenty-four hours including courses FDNT 125, 126, 127, 317; HMEC 146, 147, 148, 165, 201, plus electives to make a total of 24 hours in Home Economics; NRSG 204; general electives to make a total of 64 semester hours.

Home Economics majors and candidates for secondary certification are required to attend two approved professional meetings each semester.

ASSOCIATE OF TECHNOLOGY DEGREE IN FOOD SERVICE

The purpose of the two-year associate of technology program is to provide the student with advanced skills in institutional food service production operations including management of special functions. In addition to the requirements for the one-year certificate program, the student must complete FDNT 125, 126, 219, 220, 239, 317; B-1 or B-2 (three hours); ENGL 099 or 101; PSYC 124 or 126, 127; and electives for a total of 64 semester hours. Work experience in the food service and/or bakery is required.

CERTIFICATE PROGRAM IN FOOD SERVICE PRODUCTION

The purpose of the one-year certificate program is to provide the student with the basic production skills necessary for institutional food service. Course requirements are FDNT 111, 112, 113, 114, 127, 129, HMEC 146 or BUAD 128; SPCH 136; MATH 100 (or waiver); B-1 or B-2 (three hours), and electives to complete a total of 32 semester hours. Work experience in the food service is required.

FOODS AND NUTRITION

FDNT 111:112. Principles of Quantity Food Service I, II 2,2 hours

Classroom instruction in physical and chemical principles of institutional food preparation including the principles of sanitation and safety. (Fall, Spring)

FDNT 113:114. Quantity Food Service Production Laboratory 6,6 hours

Prerequisite or corequisite: FDNT 111:112.

Experience in food service production operations to illustrate and apply the principles presented in lectures of FDNT 111:112. Three five-hour laboratory periods each week. (Fall, Spring)

FDNT 125. Nutrition (F-3)

3 hours

An introduction to the basic principles of human nutrition. Includes study of the nutrients and the requirements for different age groups and normal physiological conditions. Attention will be given to religious and sociological influences, taking particular note of the counsel of Mrs. E. G. White. (Fall, Spring)

FDNT 126. Foods (G-2)

2 hours

Basic principles of food science including food composition, food selection, and physical and chemical principles of food preparation. Two hours of lecture each week. Home economics majors must take concurrently with FDNT 127. (Fall)

FDNT 127. Food Preparation (G-2)

1 hour

Principles of quality food preparation. Efforts will be made to meet the specific needs and interests of the group. One three-hour discussion and laboratory per week. Home economics majors must take concurrently with FDNT 126. (Fall, Spring)

FDNT 129. Institutional Baking Techniques

3 hours

Lecture and experience in principles of commercial institutional bakery production and operation, including purchasing, equipment layout, maintenance, and sanitation. One hour of lecture and five hours of laboratory each week. (Fall)

FDNT 219, 220. Advanced Food Service Production

3,3 hours

Prerequisites: FDNT 111:112, 113:114.

Lecture and experience in recipe development, menu planning, and management of banquets and special functions. One hour of lecture and five hours laboratory each week. (Fall, Spring)

FDNT 239. Advanced Institutional Baking Techniques

3 hours

Prerequisite: FDNT 129

Lecture and laboratory experience in advanced principles and techniques of commercial and institutional bakery production and operation. One hour lecture and five hours of laboratory each week. (Spring)

FDNT 317. Meal Management (G-2)

3 hours

Prerequisites: FDNT 125, 126, 127, or approval of instructor.

Experience in planning, costing, and serving meals to family-sized groups; problems in consumer economics and art of home food service. Two lectures and three hours of laboratory each week. (Spring)

FDNT 325. Demonstration Techniques 2 hours

Prerequisites: FDNT 125, 126, 127, or approval of instructor.

Purposes, standards, and techniques of giving demonstrations with application to education and business settings. There will be a fee for supplies. (Spring, odd years)

FDNT 328. Foods and Nutrition Seminar 1 hour

Studies in a variety of current topics relating to foods and nutrition. Topics, announced in advance, will be chosen to meet student need and interest. (Fall)

HOME MANAGEMENT**HMEC 146. Consumer Economics (F-2)** 2 hours

A basic course in consumer education from the standpoint of purchasing and money management as related to the home and its personal needs. (Spring)

HMEC 147. Family Resource Management (F-2) 2 hours

A study of the achievement of family goals through management of personal and family resources. This course is offered in alternate years. (Fall, even years)

HMEC 148. Orientation to Home Economics 1 hour

Orientation in the areas of Home Economics and a study of the field in terms of history, philosophy, and professional opportunities. (Spring, even years)

HMEC 201. Parenting I (F-2) 2 hours

A basic course in preparation for parenthood and the dynamics of parent-infant interaction. Particular emphasis will be given to family planning, the childbirth experience, and care of the infant. (Fall)

HMEC 202. Parenting II (F-2) 2 hours

An examination of a variety of specific techniques for developing communication and working relationships between parents and children. Discussion of common problems of young children and of methods of modifying behavior. Special emphasis will be given to discipline, communication skills, and understanding and relating to children's individual characteristics. (Spring)

HMEC 244. Household Equipment (G-2) 2 hours

Evaluation, use, and care of household appliances and equipment. (Spring, even years)

HMEC 349. Decorating and Furnishing the Home (F-2) 3 hours

A basic design course dealing with the principles of applied art in the home. Two class hours and three laboratory hours. (Spring)

Home Economics

104

HMEC 354. Home Management Seminar 1 hour
Studies in a variety of current trends relating to home management. Topics, announced in advance, will be chosen to meet student need and interest. (Spring)

HMEC 415. Practicum in Home Management 2 hours
Prerequisites: Twenty hours in Home Economics including HMEC 147 and 349, and FDNT 317, or approval of the instructor.
Experience in solving problems of family living. Laboratory will include personal management as well as working in the community. Registration required at the division office one semester in advance. (Spring)

TEXTILES AND CLOTHING

HMEC 164. Textiles (G-2) 3 hours
A study of basic fibers and fabrics including properties, construction, selection, uses, and care. Three one-hour lectures per week. (Fall)

HMEC 165. Basic Clothing (G-2) 2 hours
Basic principles of clothing construction as applied to individual garments. Three hours combination lecture/laboratory each week. Three hours of additional sewing experience required each week. (Fall, Spring)

HMEC 166. Intermediate Clothing (G-2) 2 hours
Principles of wardrobe planning, selection, and care for the individual. Emphasis is given to the relationship of the art principles to clothing. Two lectures and two hours of additional sewing experience required each week. (Spring)

HMEC 313. Clothing and Human Behavior (F-2), (W) 2 hours
Clothing as it relates to self-expression and to the individual's adjustment to the physical and social environment. The Seventh-day Adventist philosophy of dress is studied. (Spring, odd years)

HMEC 315. Pattern Design 3 hours
Prerequisite: HMEC 165 or approval of instructor.
Clothing design and practice in creating designs through flat pattern and draping techniques. Two one-hour lectures and one three-hour laboratory per week. (Spring, odd years)

HMEC 316. Tailoring for Men and Women 3 hours
Prerequisite: HMEC 165 or approval of instructor.
Evaluation and use of various tailoring methods as applied in selection, fitting and construction of tailored garments. (Fall, odd years)

HMEC 345. Upholstery and Drapery (G-2) 3 hours
Laboratory experience in simple upholstering and professional drapery making. Two three-hour combined lecture and laboratory periods. There will be a fee for supplies. (Fall or Spring, even years)

HMEC 485. Home Economics Seminar (W)**2 hours**

Prerequisite: Twenty hours completed in Home Economics.

Recent trends in Home Economics and related professional fields. Required of and limited to majors. (Spring, odd years)

HMEC 295/495. Directed Study**1-3 hours**

To permit the advanced student majoring in Home Economics to do individual work in the field under the direction of a staff member. By divisional approval which must be obtained before the semester begins.

EDUCATION**EDUC 438. Methods of Teaching Home Economics****2 hours**

Prerequisite: Admission to Teacher Education.

Attention is given to methods and materials of instruction, planning, testing and evaluating student performances, the survey and evaluation of textbooks. Four lectures each week of the first half of the semester. (Fall)

(F-2), (F-3), (G-2), (W) See pages 19-22.

LIBRARY SCIENCE

Minor: Eighteen hours.

A school librarian K-12, Tennessee endorsement is available to certified teachers who complete the 18 hours of Library Science provided by this minor.

Teaching Endorsement: The student must earn at least 24 semester hours in the subject area of his first teaching field. He may add the following endorsement by meeting the number of hours indicated below.

LIBR 125	Reference	3 hours
LIBR 226	Libraries and Librarianship	2 hours
LIBR 314	Cataloging and Classification	3 hours
LIBR 325	Library Materials for Children	3 hours
LIBR 333	Instructional Media	2 hours
LIBR 416	School Library Media Center Administration	3 hours
LIBR 425	Library Materials for Young Adults and Adults	2 hours
		TOTAL 18 hours

Before the end of the sophomore year, the student must apply to the Division of Education and Human Sciences for admission to the Teacher

Education Program. Prior to the end of the junior year, the student must apply to the Division of Education and Human Sciences for admission to the professional semester.

Schedule of Course Offerings:							
	81-82	82	82-83	83	83-84	84	84-85
		Summer		Summer		Summer	
1st	125	314	125	333	125	226	125
Sem.	226	325	314	425	226	325	314
2nd	325	416	325		325		325
Sem.	425		333		425		333
			416				416

LIBR 125. Reference (G-2) 3 hours

Presents basic concepts, selection and use of general and specialized reference material for all levels of school libraries. Useful for the general student who desires to know how better to use the library. Required for all student assistants working in McKee Library. (Fall)

LIBR 226. Libraries and Librarianship 2 hours

Introduces the aspects of the library profession and the areas of service of various types of libraries. Develops the career possibilities of librarianship. (Fall)

LIBR 314. Cataloging and Classification 3 hours

Prerequisite: LIBR 125, 226.
Examines the basic concepts and strategies for instituting and operating the cataloging area of the school library or media center. Involves the student in the basic methods of cataloging, classification, and other technical procedures integral to the retrieval of information. (Fall)

LIBR 325. Library Materials for Children 3 hours

Presents to the student a knowledge of a wide variety of books and related materials for children, grades 1-8. Develops an appreciation for books and reading that can be enthusiastically transmitted to young readers through critical evaluation and selection of books and materials. Correlates the use of books and materials to the specific needs and interests of young readers. (Spring)

LIBR 333. Instructional Media 2 hours

A laboratory course in the selection, operation, and use of audio-visual equipment and materials. Preparation of transparencies, flat pictures, graphics, and audio materials will be required. One hour lecture and three hours laboratory per week. (Spring)

LIBR 416. School Library Media Center Administration 3 hours

Prerequisites: LIBR 125, 226, 314.
Presents the basic concepts and organizational procedures for the administrative personnel of the school library or media center so that this resource will become involved with the total program of the school. (Spring)

LIBR 425. Library Materials for Young Adults and Adults 2 hours

107

Gives emphasis to the variety of books and related materials for grades 9-12. Correlates critical evaluation and selection to the interests, use, and specific needs of the young adult as he develops his reading habits and skills. Develops an appreciation for books and reading that can enthusiastically involve both young adults and adults. (Spring)

(G-2) See pages 19-22.



DIVISION OF HEALTH, PHYSICAL EDUCATION, AND RECREATION

Chairman: Donald Moon

Philip Garver, Steve Jaecks, Carla Kamieneski, Robert Kamieneski

The courses in Health, Physical Education, and Recreation propose to acquaint students with principles of healthful living, to help each student develop physical efficiency through participation in supervised activity, to develop wholesome recreational habits by helping the student acquire interest, knowledge, and skills in several recreational activities, and to contribute to preparation for a career in health, physical education, and recreation.

Major: Thirty hours for the Bachelor of Arts degree including HLED 314, 315; PETH 121, 122, 221, 222, 265, 266, 363, 364; and excluding HLED 203. Required cognates: BIOL 105, 106.

No general education activity courses, except PEAC 255, Water Safety Instructor, may apply on the major. Competency required in PEAC 143, *Beginning Tumbling* and PEAC 254, *Lifesaving*.

Skill deficiencies in each PETH 121, 122, 221, or 222 activity unit will be indicated by grade of C- or less. Deficiencies for these units must be met by taking for no credit the corresponding general education activity course.

Intramural participation is recommended.

Majors training for teaching positions must meet the NCATE certification requirements set forth by the Division of Education and Human Sciences.

Health Science Major: Forty-five hours for the Bachelor of Science degree including HLED 314, 315, 373, 470, 473; PETH 374, 495; PEAC 125; CHEM 151:152; MATH 215; BIOL 105, 106, 125; FDNT 125.

Minor: Eighteen hours including PETH 121, 122, 221, 222, 265, 266, 364.

Teaching Endorsement, Grades 1-12:

HLED 173	Health and Life	2 hours
HLED 373	Care and Prevention of Athletic Injuries	2 hours

Health, Physical Education and Recreation

110

HLED 315	Physiology of Exercise	4 hours
HLED 314	Kinesiology	4 hours
PETH 364	Principles and Administration of Physical Education and Recreation ..	3 hours
PETH 463	Physical Education in the Elementary School	2 hours
PETH 265, 266	Officiating Sports Analysis	4 hours
PETH 121, 122; 221, 222	Professional Skills courses	8 hours
TOTAL		29 hours

Before the end of the sophomore year, the student must apply to the Division of Education and Human Sciences for admission to the Teacher Education Program. Before the end of the junior year, the student must apply to the Division of Education and Human Sciences for admission to the professional semester.

GENERAL EDUCATION ACTIVITY COURSES

PEAC 123. Volleyball (G-3)	1 hour
Development of skills necessary for enjoyable and successful play. (Spring, Fall)	
PEAC 124. Basketball (G-3)	1 hour
Team activity skills developed that may be used in the individual's leisure time. (Fall)	
PEAC 125. Conditioning (G-3)	1 hour
The learning of basic training and aerobic principles followed by a personal long-range conditioning program. (Fall)	
PEAC 131. Badminton (G-3)	1 hour
Strokes, rules, and playing situations included with physical conditioning for badminton. (Spring)	
PEAC 133. Racketball (G-3)	1 hour
Activities with emphasis on recreational carry-over values. (Fall, Spring)	
PEAC 134. Basic Tennis (G-3)	1 hour
Basic tennis skills including the strokes, rallying, and volleying. (Fall)	
PEAC 136. Basic Golf (G-3)	1 hour
A basic course for the beginning golfer; includes use of all clubs and course play. (Fall)	

Health, Physical Education and Recreation

111

PEAC 137. Cycling (G-3) 1 hour
Emphasizing various types of cycling, repairs, and safety factors. Students are to provide their own bicycles. (Spring)

PEAC 138. Intermediate Golf (G-3) 1 hour
Play on a variety of courses for the bogie golfer. (Spring)

PEAC 139. Intermediate Tennis (G-3) 1 hour
For the advanced player with emphasis on playing strategy, doubles, and mixed doubles. (Fall)

PEAC 143. Basic Tumbling (G-3) 1 hour
Mat tumbling leading to gymnastic free-exercise routines. (Fall, Spring)

PEAC 144. Basic Apparatus (G-3) 1 hour
Basic skills emphasized on trampoline, P-bars, rings, unevens, and balance beam. (Fall, Spring)

PEAC 151. Scuba Diving (G-3) 1 hour
Leads to basic certification by N.A.S.D.S. or N.A.U.I. Lab fees in addition to tuition. (Fall, Spring)

PEAC 153. Basic Swimming (G-3) 1 hour
Both beginning and intermediate swimming, and aquatic safety skills will be included. (Fall, Spring, Summer)

PEAC 243. Tumbling Team (G-3) 1,1 hour
Admission will be based on satisfactory performance of try-out requirements for team membership. (Fall, Spring)

PEAC 253. Intermediate Swimming (G-3) 1 hour
Review of swimming strokes, diving, and conditioning. (Fall, Spring)

PEAC 254. Lifesaving (G-3) 1 hour
Prerequisite: PEAC 253 or equivalent.
Leads to Red Cross Advanced Life Saving certification. (Spring)

PEAC 255. Water Safety Instructor (G-3) 1 hour
Prerequisite: PEAC 254 or equivalent.
Leads to Red Cross Water Safety Instructor certification. (Spring)

PEAC 259. Special Activities (G-3) 1 hour
Courses with various structured content may be offered under this topic heading. Included are courses in water skiing, sailing, small craft, snow skiing, rock climbing, spelunking, aerobics, and sailplaning. This course may be repeated with the varying subject matter. Lab fees in addition to tuition are usually charged.

Health, Physical Education and Recreation

112

HEALTH EDUCATION

- HLED 173. Health and Life (F-3) 2 hours**
A study of current subjects vital to healthful living. Integrating healthful living and Christianity with today's scientific research. Not open to nursing students. (Fall, Spring, Summer)
- HLED 203. Safety Education (F-3) 2 hours**
The nature and causes of accidents, safety measures for the prevention of common accidents of the home, school, industry, transportation, and recreation. The standard and advanced Red Cross Certificates will be issued to those completing the required work in first aid. (Fall)
- HLED 314. Kinesiology 4 hours**
Prerequisite: BIOL 105, 106 or equivalent.
A study of the anatomical and mechanical variables influencing movement, including adaptive activities for the handicapped person. (Fall)
- HLED 315. Physiology of Exercise (W) 4 hours**
Prerequisite: BIOL 105, 106 or equivalent.
Emphasizing the physiological effects of muscular exercise, massed gymnastics, and physical conditioning. Significance of these effects for health and for skilled performance. (Spring)
- HLED 373. Care and Prevention of Athletic Injuries 2 hours**
Prerequisite: HLED 314.
The study of treatment and prevention of athletic injuries. (Spring, even years)
- HLED 470. Health Ministry 2 hours**
This course emphasizes lifting the Great Healer through health ministry. Principles found in the Bible and Spirit of Prophecy are used as the basis for optimum health habits. Learning of health for an evangelistic tool and for optimal personal health are the two-fold objectives for the course. (Spring)
- HLED 473. Health Education 2 hours**
Prerequisite: HLED 173 or HLED 470.
A study of the theoretical and scientific basis of health education with emphasis on the development and organization of the school health instruction program. (Spring, odd years)

PHYSICAL EDUCATION THEORY

- PETH 121, 122. Professional Skills, Team Activities 2,2 hours**
Development of professional skills including performance and teaching techniques for softball, football, volleyball, basketball, hockey, and soccer. For majors and minors only. (Fall, odd years; Spring, even years)

Health, Physical Education and Recreation

113

PETH 221, 222. Professional Skills, Individual Activities 2,2 hours

Development of professional skills including performance and teaching techniques for golf, tennis, badminton, gymnastics, conditioning, recreational activities, track and field. Taught in alternate years for HPER majors and minors only. (Fall, Spring)

PETH 261. Introduction to Recreation (G-3) 2 hours

A course designed to promote outdoor recreation and provide experience for those interested in preparing for different phases of camp life, outdoor living and activities. (Spring, Summer)

PETH 262. Wilderness Survival 3 hours

Prerequisite: PETH 261 or equivalent.

A course designed to acquaint students with a basic knowledge of survival techniques and skills. A four- or five-day survival experience will be included. Offered alternate summers only. (Summer, odd years)

PETH 265, 266. Officiating Sports Analysis 2,2 hours

An introduction to administration of and participation in the organization of officiating in team and individual recreational activities. (Fall, Spring)

PETH 363. An Introduction to Measurements and Research of Physical Education 3 hours

A survey of tests used in Physical Education and an introduction to statistical procedures for analyzing data and how it may be applied to research. (Spring)

PETH 364. Principles and Administration of Physical Education and Recreation 3 hours

An integrated study of the principles and administrative concepts of Physical Education and Recreation. (Fall)

PETH 374. Motor Learning and Development 2 hours

The course based on physical anthropometrics and the neurological development of the child, adolescent related to his motor behavior. Taught in alternate years. (Spring)

PETH 463. Physical Education in the Elementary School 2 hours

This course is designed primarily for elementary teachers, physical education majors and minors. Methods and materials, graded activities in games and relays, singing games and rhythmic activities, self-testing and rhythmic activities, and safety measures. Observation and teaching of elementary school children will be scheduled. (Spring, Summer)

PETH 490. Senior Seminar (W) 2 hours

An exploration of philosophical and historical contributions to the field. Discussion of current topics, issues and research pertinent to the field and the interests of the students. Research and/or writing required as a portion of the class. (Fall)

Health, Physical Education and Recreation

114

PETH 495. Directed Studies (W)

1-3 hours

An introduction to research and discussion on problem areas in the discipline. Limited to Physical Education majors. Writing emphasis credit for PETH 495 only. (Fall, Spring, Summer)

EDUCATION

EDUC 438. Methods of Teaching Health and Physical Education

2 hours

Prerequisite: Admission to Teacher Education.

Attention is given to methods and materials of instruction, planning, testing, and evaluating student performances, the survey and evaluation of textbooks. The first half of the first semester during the senior year. (Fall)

(F-3), (G-3), (W) See pages 19-22.

DIVISION OF INDUSTRIAL EDUCATION

Chairman: Wayne Janzen

John Durichek, Francis Hummer, Kenneth Teter, David Turner

Industrial Education at Southern College provides learning experiences for those who may wish a teaching career, a trade in the construction or service industries, consumer education or avocational skills.

Major: Forty-eight hours for the Bachelor of Science degree in Industrial Education including (a) INDS 145, 149, 154, 174, 184, 265, 274, 275, 314, 324, 325; ART 104; six to seven hours of electives, and (b) the courses listed below for an Industrial or Secondary Teaching emphasis. Cognate requirements are CHEM 104, MATH 104, and PHYS 107.

Secondary Teaching Emphasis—INDS 415 and 485, plus the 24 semester hours of professional education subjects required to meet the NCATE-approved program for certification.

Industrial Emphasis—INDS 176. This program prepares students for employment in fabricating and manufacturing industries and plant and institutional maintenance. The student will be proficient in several areas upon completion of the program.

Minor: Eighteen hours including six hours upper division.

Teaching Endorsement:

Teaching endorsements are granted by the state to those who complete additional courses beyond the following classes: INDS 149, 325, 274, 145, 174, 154, 265 and ART 104.

Drafting

Drafting endorsement requires 2 hours Woods, Metals, or Industrial Crafts elective.

Industrial Arts

Industrial Arts endorsement requires 4 hours Woods, Metals, or Industrial Crafts elective.

Metals

Metals endorsement satisfied by INDS 314 which is required.

Industrial Education

116

Power Mechanics

Power Mechanics endorsement requires 4 hours Woods, Metals, or Industrial Crafts elective.

Woods and Construction

Woods and Construction endorsement requires 2 hours Woods elective plus 2 hours Woods, Metals, or Industrial Crafts elective.

Before the end of the sophomore year, the student must apply to the Division of Education and Human Sciences for admission to the Teacher Education Program. Before the end of the junior year, the student must apply to the Division of Education and Human Sciences for admission to the professional semester.



ASSOCIATE OF TECHNOLOGY IN CONSTRUCTION

117

The emphasis of this program will be in residential construction. Extensive on-the-job training will include framing, carpentry, finish carpentry, painting, masonry, plumbing, and house wiring. Each student must have a math ACT score of at least 12 or take MATH 100. The requirements are as follows: CNST 121, 122, 123, 124, 125, 126, 127, 128, INDS 135, 177, 184, 185, 325. Cognates required: ACCT 103, BUAD 253, six hours of Religion electives, and ENGL 101.

Construction Technology students are supplied with commercially laundered uniforms. The student will be charged half the cost incurred which averages less than \$2.00 per week for five pairs of pants and shirts. Each student is also expected to purchase his own hand tools. Estimated cost for carpentry classes—\$125.

CONSTRUCTION

CNST 121. Home Building Technology I **3 hours**

CNST 122. Home Building Technology II **3 hours**

These two courses emphasize methods and techniques of homebuilding, foundation layout, framing, and roofing. Two periods lecture and twelve periods laboratory each week. (Fall)

CNST 123. Home Building Technology III **3 hours**

CNST 124. Home Building Technology IV **3 hours**

Students will complete the house begun the previous semester. Emphasis on interior finish including the installation of doors, window trim and cabinets. Two periods lecture and twelve periods laboratory work each week. (Spring)

CNST 125. Home Building Technology V **6 hours**

This course builds on the skills and techniques learned during the first year. Students will be exposed to advanced roofing systems, techniques of building layout, and the use of automated equipment. Two periods lecture and twelve periods laboratory each week. (Fall)

CNST 126. Home Building Technology VI **6 hours**

This course is designed to further develop and refine the students' finish carpentry skills. There will be an increased emphasis on the use of power equipment. Two periods lecture and twelve periods laboratory each week. (Spring)

CNST 127. Building Layout and Design **2 hours**

This course will emphasize economy of design and modular construction techniques. Students will learn how to use span charts and calculate loads for load bearing structural framing members. Two periods lecture each week. (Fall)

Industrial Education

118

CNST 128. Construction Estimating and Management 3 hours

This course will emphasize proper estimating and management procedures as they apply to residential construction. Three periods lecture each week. (Spring)

ASSOCIATE OF SCIENCE DEGREE IN INDUSTRIAL TECHNOLOGY

This two-year curriculum is designed for those who would like a broad background in materials and processes of industry with an emphasis towards plant and institutional maintenance. The requirements are as follows: INDS 154, 174, 175, 176, 184, 265, 274, 275, 278, 314. Cognates: Six hours to be chosen from PHYS 107, MATH 104, and CHEM 111.

DIPLOMA PROGRAM

Auto Body—Repair and Refinishing Two Semesters

The auto body program is designed to teach panel repair, refinishing, estimating, frame straightening, and major collision repair. The typical student upon completion of the course should have gained sufficient skill and experience to obtain employment in the trade.

Inasmuch as tradespeople provide their own hand and air tools, the student will be expected to purchase a skeleton set for personal use during the course. The department will assist the student in the purchase of these tools which will cost approximately \$200.

The requirements are as follows: INDS 110, 112, 114, 116, 118, 120, 265; BUAD 128; B-1 or B-2, three hours.

INDUSTRIAL EDUCATION

INDS 110. Panel and Spot Repair 4 hours

Course is the first introduction to body repair. Student will learn how to straighten small dents, prepare panel for body fillers, prime and block ready for painting. (Fall)

INDS 112. Painting and Refinishing 4 hours

An introductory study of vehicle preparation and painting. Student will progress to doing complete refinish job himself. Student must purchase his own respirator and spray gun. Costs average \$125. (Fall)

INDS 114. Oxy-Acetylene Welding 1 hour

Gas welding and brazing of sheet metal in preparation for typical body shop welding jobs. Personal goggles required. (Fall)

INDS 116. Collision Repair I 4 hours

Introduction to a major collision job. Students will probably work in pairs. Body alignment, frame straightening, panel replacement, and dent repair are involved. (Fall)

INDS 118. Collision Repair II**4 hours**

Continuation of experience in collision repair, emphasizing body alignment, frame straightening, glass work, fiber glass repair, and body section replacement. There is no lecture component to this class, but rather is composed of four 3 period labs per week. (Spring)

INDS 120. Collision Repair III**5 hours**

A repetition of work experiences of Collision Repair I and II, but on an individual basis. Students will learn estimate writing, parts and supplies purchasing, shop management, and equipment maintenance. (Spring)

INDS 135. Masonry**3 hours**

A fundamental course in concrete block and brick laying, footings, and foundations for residences. One period lecture and six periods laboratory each week. Masonry tools cost approximately \$65. (Fall)

INDS 145. Introduction to Graphic Arts (G-2)**4 hours**

Basic instruction in screen printing, letter press and auxiliary operations. Special emphasis is given to offset methods of copy preparation, camera techniques, platemaking, and press work. A supplies fee will be charged for projects printed in class. This cost averages \$50.

INDS 149. Technical Drawing (G-2)**3 hours**

A basic course in drafting, training the student in the use of instruments and the principles of orthographic projection, surface development, sectioning, pictorial representation, and dimensioned working drawings. Six periods laboratory each week. Lecture as announced by the instructor. Instruments cost approximately \$40 (also used for INDS 325). (Spring)

INDS 154. Woodworking (G-2)**4 hours**

A study of hand and machine tools, joinery, and proper methods of furniture construction. Two periods lecture, six periods laboratory each week. A supplies fee will be charged for the cost of the materials used in project construction. Generally, the costs have exceeded \$100 or \$200 if large furniture items were constructed. (Fall, Spring)

INDS 155. Creative Crafts (G-2)**2 hours**

Exploring the technology of industry by forming and fabricating objects of plastics, metals, and woods. One period lecture and three periods laboratory each week. Open to all students. Project costs run between \$15-\$30. (Fall, Spring)

INDS 174. General Metals (G-2)**4 hours**

Designed to acquaint the student with the many aspects of the metal working industry. Instruction will be given in the areas of forging, foundry, heat treatment, sheet metal, welding, plus hand- and power-operated metal-cutting equipment. Two periods lecture and six periods laboratory each week. Project expenses average \$100. Each student must purchase his own safety glasses, welding gloves and goggles. (Fall)

Industrial Education

120

INDS 175. Refrigeration and Air Conditioning (G-2) 3 hours

Fundamental principles of refrigeration and air conditioning. Emphasis will be placed on troubleshooting and servicing of both domestic and commercial units. One period lecture and six periods laboratory each week. Optional tool expense of \$25 to \$30. (Spring)

INDS 176. Electric and Oxy-Acetylene Welding (G-2) 3 hours

A very practical course in arc and acetylene welding, teaching the student to weld skillfully in all positions: flat, vertical, and overhead. In addition, the student will learn to use the Tig and Mig industrial welders. One period lecture and six periods laboratory each week. Safety glasses and gloves cost approximately \$25. (Fall, Spring)

INDS 177. House Wiring (G-2) 3 hours

Instruction in the National Electric Code, basic electrical principles, complete instruction and practice in residential wiring, including electric heating. Some industrial wiring techniques will also be included. One period lecture, six periods laboratory each week. Tools cost approximately \$60. (Spring)

INDS 184. Industrial Safety Education 1 hour

This course covers the major areas of industrial safety. It is not a study of safety rules, rather an overview of the social, physiological and philosophical approach toward safety in industry. (Fall)

INDS 185. Plumbing (G-2) 2 hours

Instruction in code requirements, procedures in residential plumbing, waste, maintenance, proper methods of sewage disposal using soil pipe and plastic; water lines, using copper and galvanized pipe. One period lecture and three periods laboratory each week. Total cost approximately \$20. (Spring)

INDS 255. Woodturning (G-2) 2 hours

Center and faceplate turning experiences. Two periods lecture each week for the first four weeks. Three periods laboratory for each semester hour credit. A supplies fee will be charged. (Fall)

INDS 264. Car Care (G-2) 2 hours

A course designed to help the car owner become knowledgeable in matters of car care and operation. Does not apply toward a major or minor. One period lecture and three periods laboratory each week. This course replaces the former course "Auto Survey for Women." (Fall)

INDS 265. Automotive Fundamentals (G-2) 4 hours

A course designed to give basic understanding of the automobile. Main emphasis is given to power plant and drive train design, operation, and service. Two periods lecture and six periods laboratory each week. Each student is expected to supply his own basic hand tools and coveralls. Tools may be rented or purchased from the department. (Minimum tool set costs approximately \$150.) All lab learning experiences are on actual cars either from the community or personal vehicle. (Fall, Spring)

INDS 274. Electricity/Electronics (G-2)**4 hours**

A basic course in the principles of electricity and electronic circuitry—D.C. and A.C., with emphasis on resistors, capacitors, diodes, transistors, vacuum tubes, amplifiers, and oscillators. Two periods lecture and six periods laboratory each week. Variable project expense involved. (Fall)

INDS 275. Machine and Tool Maintenance**2 hours**

A study of the principles and methods of machine repair and preventative maintenance of equipment found in an industrial shop. The time will be divided between metalworking and woodworking equipment. One period lecture and three periods laboratory each week. Taught in alternate years. (Fall)

INDS 278. Plant Maintenance**6 hours**

This course will include two periods of lecture per week dealing with such areas as: plumbing, carpentry, electrical wiring and heating systems, etc. Laboratory experience will entail working with a tradesman in each of the above areas. Twelve periods of laboratory per week. (Spring)

INDS 314. Machine Shop**4 hours**

Prerequisite: INDS 174 or permission of instructor.

A course designed to provide in-depth experiences in the use of metal machinery and fabrication equipment. Provision is made for extensive personal or large group produced projects. Two periods lecture, six periods laboratory each week. A 1½ ton floor jack will be built as the beginning project which costs approximately \$100. Other project expenses are variable.

INDS 315. Offset Lithography**3 hours**

An advanced study of graphic communications which will give the student actual operating experience with process cameras, dark room techniques, stripping, plate making, contacting, and a variety of offset press equipment. One period lecture and six periods laboratory each week. A supplies fee will be charged. Taught in alternate years. (Spring)

INDS 317. Engine Rebuilding**2 hours**

Prerequisite: INDS 265 or equivalent.

This course is designed to provide experience in internal combustion engine overhaul. Each student will individually remove from car, overhaul, and re-install one engine. Six periods of laboratory including individualized instruction. Taught in alternate years. (Fall)

INDS 318. Automotive Tune-up**3 hours**

Prerequisite: INDS 265.

Automotive troubleshooting and tune-up. Course emphasis directed towards the automobile electrical and fuel system. One period lecture and six periods laboratory each week. (Spring)

INDS 323. Auto Body Repair (G-2)**3 hours**

An introductory course designed to acquaint the student with the principles and techniques used in repair of damaged body panels. Preference will be

Industrial Education

122

given for class admission to those who have experience in doing automatic work and who have gas welding skills. Each student will need his own basic hand tools which cost approximately \$100. One period lecture and six periods laboratory per week. (Spring)

INDS 324. Manufacturing Processes (W) 3 hours

A study of manufacturing processes and management. Students will simulate line production, visit area manufacturers, and do individual research projects. (Fall)

INDS 325. Architectural Drafting (G-2) 3 hours

A study of architectural details and methods of construction relative to frame and masonry veneer residential dwellings. Emphasis is placed on residential planning and design principles. Each student will design and draw all details necessary in the construction of a home. Eight periods laboratory each week. Lectures as announced by the instructor. Instruments cost approximately \$50 (also used for INDS 149). (Fall)

INDS 354. Furniture Construction 3 hours

Prerequisite: INDS 154.

Emphasis will be placed on construction of a piece of furniture of the student's choice. Two periods lecture and six periods laboratory each week. Students must underwrite the costs of materials. Taught in alternate years. (Spring)

INDS 415. Laboratory Operation and Supervision 2 hours

A course designed for students planning to be instructors. It will provide experiences such as tool maintenance, materials purchasing, project evaluation, and student assistance. This course must be preceded by completion of basic courses in each content area, such as drafting, graphic arts, woods, metals, and mechanics. Each student, in counsel with the instructor, will decide in which of three areas he will divide his time. One period lecture, three periods laboratory each week. Taught in alternate years. (Spring)

INDS 485. Seminar 1 hour

A discussion of problems related to the industrial education teaching profession. One period discussion each week. Open only to Industrial Arts majors. (Spring)

INDS 295/495. Directed Study 1-3 hours

The study of a specific problem in the field of Industrial Education. A written report of the problem may be required by the supervising instructor. Open only to Industrial Education majors and minors. Offered on demand. (Fall, Spring)

EDUCATION

EDUC 438. Methods of Teaching Industrial Arts 2 hours

Prerequisite: Admission to Teacher Education.

Attention is given to methods and materials of instruction, planning, test-

ing, and evaluating student performance, and the survey and evaluation of textbooks. Four lectures each week of the first half of the first semester during the senior year. (Fall)

OFFICE ADMINISTRATION

SECR 219. Offset and Printing Operations **2 hours**

See Office Administration listing. (Fall, Spring)

(G-2), (W) See pages 19-22.

AVIATION

AVIA 101. Aviation Fundamentals I (G-2) **3 hours**

A study of the basics of aircraft performance, meteorology, navigation, the flight computer, and the Federal Aviation Authority regulations. Designed to enable the student to pass the FAA private pilot written examination.

AVIA 103. Private Pilot Flight Training (G-2) **1 hour**

Co-requisite: Aviation 101.

Includes a minimum of fifteen hours of dual/solo flight and supporting ground briefings. Student is expected to reach solo state for this course.

AVIA 104. Advanced Pilot Flight Training (G-2) **1 hour**

Prerequisite: AVIA 101, 103.

Includes a minimum of twenty hours of dual or solo flight. Designed to prepare the student for the FAA private pilot license.

AVIA 211. Aviation Fundamentals II (G-2) **3 hours**

Prerequisite: Aviation 101.

A more advanced course in aircraft performance, meteorology, navigation, and FAA regulations. Designed to prepare the student for the FAA instrument pilot written examination.

AVIA 212. Instrument Pilot Flight Training (G-2) **1 hour**

Prerequisite: Private pilot's license.

Flight training necessary to enable a student to pass the FAA instrument pilot practical examination.

STUDENTS
WE ARE TO
CONNECT
LEARNING
AND
GROWTH
TOGETHER



DIVISION OF MATHEMATICAL SCIENCES

Chairman: Art Richert

Computer Science

**Merritt MacLafferty
Gerald Owens**

Mathematics

**Merritt MacLafferty
Robert Moore
Art Richert**

Physics

**Ray Hefferlin
Henry Kuhlman**

COMPUTER SCIENCE

Computer Science deals with the control programs that govern the behavior of modern digital computers. In modern society, it is rare that a day passes without the average person interacting, in some way, with computers. From the tiny microcomputers that govern the fuel consumption of automobiles to the huge machines that process the millions of transactions in the marketplace, the computer has become an inseparable part of modern life. However, with the burgeoning use of computers comes the alarming fact that there will be a shortage of computer programmers that will write the programs to control them. On the average, for every computer programmer, there are three jobs that must remain vacant for lack of programmers. This situation will continue for the next ten years.

The Computer Science staff at SC is committed to the training of competent computer programmers that are able to tackle the large programming tasks that confront science and business. This training involves three aspects: 1) teaching the student the necessary programming languages that are being currently used in the profession, 2) teaching the student the most up-to-date design methodologies, including Structured Programming and Top-down design, and 3) providing programming experience in class similar to what will be encountered in the field.

CODE OF COMPUTER CONDUCT AT SOUTHERN COLLEGE

1. Users must use only those computer accounts which have been authorized for their use.

2. Users must use their computer accounts only for the purposes for which they were authorized, as arranged with the Computer Service Department.
3. Users should minimize the impact of their work on the work of other users. It is the responsibility of the user to learn efficient means of utilizing the computer.
4. Users must not attempt to subvert the restrictions associated with their computer accounts.
5. Users must not attempt to access information concerning the data or jobs of other users except as provided by techniques arranged for that purpose by the Computer Service Department.
6. Student users shall not exceed default parameters for priority factors except in cases where published policy provides for differences.

BACHELOR OF SCIENCE DEGREE IN COMPUTER SCIENCE

Major—Math Emphasis: Forty-four hours for the Bachelor of Science degree in Computer Science, including CPTR 125, 218, 219, 316, 318; ACCT 121; MATH 114, 115, 215, 217 or 315, 405 and eight hours of CPTR and MATH electives in classes listed 300 or above. Cognate required: SECR 105 (unless the student can type 35 wpm or has had high school typing), and CPTR 480.

Major—Business Emphasis: Forty-five hours for Bachelor of Science degree in Computer Science including CPTR 125, 217, 219, 317, 318, 323, 480; ACCT 121:122, 318; BUAD 334; MATH 215, 314; three hour elective in CPTR and six hours electives in ACCT or BUAD. Cognate required: SECR 105 (unless the student has had high school typing or can type 35 wpm).

A special program is available for those desiring a Bachelor of Science degree with a double major in computer science and accounting. See Division Chairman.

ASSOCIATE OF SCIENCE DEGREE IN COMPUTER SCIENCE

Two-year curriculum comprising a general core, with election of either a mathematics or business emphasis, plus general education requirements and electives make a total of 64 hours for the degree.

Requirements are as follows: CPTR 125, 219, 318, ACCT 121, MATH 215, SECR 105 (or one year of high school typing or pass a 35 wpm speed test), three hours of electives in Computer Science; (a) Mathematics Emphasis—CPTR 218, MATH 114, 115, five hours of electives in Mathematics at 200 level or above; or (b) Business Emphasis—CPTR 217, ACCT 122, 318, BUAD 334, three hours of electives in Accounting.

Minor in Computer Science: Eighteen hours including CPTR 318 or 319.

Students planning to do graduate work in computer science should consult with a computer science instructor as early as possible to facilitate meeting graduate school entrance requirements. Proper use of CPTR 495 will fulfill requirements.

CPTR 101. Computers and Society (G-2) 3 hours

An introduction to computers and computing with emphasis on the powers and limitations of computers and their impact on modern society. A programming language will be taught and hands-on experience with a modern, time-sharing computer will be provided to emphasize certain aspects of computers. For non-Computer Science majors only. (Fall, Spring)

CPTR 125. Introduction to Computing (G-2) 3 hours

An introduction to computer usage. Use and application of existing programs selected from many fields of interest. Information storage, editing, and retrieval. Basic programming, programs, and program structure. (Fall, Spring)

CPTR 135. Computer Science Topics 1 hour

Topics selected from machine architecture, organization, machine language, special purpose high level languages, trends in computer science; selected current literature and problems. May be repeated up to three hours.

CPTR 217. Cobol Programming Language (G-2) 3 hours

Prerequisite: CPTR 125.

Semantics and syntax of Cobol. Emphasis is placed on business problems using the Cobol Language. (Fall)

CPTR 218. Fortran and Algorithmic Languages (G-2) 3 hours

Prerequisite: CPTR 125 or permission of instructor.

Syntax and semantics of arithmetic expressions and statements. Precedence hierarchy of arithmetic operations and relational operators. Global properties of algorithmic languages including scope declarations, storage allocation, grouping of statements, and subroutines. (Fall)

CPTR 219. Symbolic Assembler Language 3 hours

Prerequisite: CPTR 125 or permission of instructor.

Computer structure, machine language, instruction execution, addressing techniques, and digital representation of data. Computer systems organization, symbolic coding and assembly systems and program segmentation and

linkage. Systems and utility programs, programming techniques, and recent developments in computing. Several computer projects to illustrate basic machine structure and programming techniques. (Fall)

CPTR 316. Advanced Fortran

3 hours

Prerequisite: CPTR 218 and 219.

An advanced course in Fortran with emphasis on the design and implementation of large scientific programs. (Spring)

CPTR 317. Advanced Cobol

3 hours

Prerequisite: CPTR 217.

An advanced course in Cobol with emphasis on tape and disk operations, program design, and interactive programming. (Spring)

CPTR 318. Data Structures

3 hours

Prerequisites: CPTR 125.

Basic concepts of data. Linear lists, strings, arrays, orthogonal lists and trees. Storage systems and structures, and storage allocation and collection. Multilinked structures and data bases. (Spring)

CPTR 319. Systems Programming

3 hours

Prerequisites: CPTR 219 and 318.

Review of batch process systems programs, their components, and operation characteristics. Implementation techniques for parallel processing of input-output and interrupt handling. Overall structure of multiprogramming systems on multiprocessor hardware configurations. Addressing techniques, core management, file system design and management, system accounting, and other user-related services. Traffic control, interprocess communication, design of system modules, and interfaces. (Fall)

CPTR 323. Business Systems Analysis and Design

3 hours

Prerequisite: CPTR 217.

A systematic study of designing and implementing a business system. Preliminary and detailed investigation. Analysis and design of output, input, files, processing, and controls. Management approval. Project management, scheduling and control, programming assignments, and specifications. Programming, testing, documentation, implementation, and evaluation.

CPTR 480. Scientific Writing (W)

1 hour

(See Mathematics listing).

CPTR 295/495. Directed Study

1-3 hours

Prerequisite: Consent of instructor and division head.

Individual or group work adjusted to meet particular needs of computer science students. May be repeated for credit up to six hours.

(G-2) See pages 19-22.

MATHEMATICS

129

Throughout recorded history mathematics and mathematical thinking have influenced man's culture to an extent that even many well-educated people fail to appreciate. *The Elements* of Euclid, the invention of a place-value numeration system, the invention of the calculus, and more recently the development of statistical inference, to name just a few, are mathematical contributions to civilization which have significantly affected the philosophies, commerce, science, and technology of mankind.

The Mathematical Sciences Division seeks to transmit this mathematical heritage to the students of Southern College by (1) introducing students to mathematical concepts and techniques and the disciplined, logical thinking required to successfully apply them to a variety of problem-solving experiences, (2) providing a stage of the formal education of professional mathematicians, (3) educating teachers of mathematics, and (4) providing appropriate courses for users of mathematics.

Major: Forty hours for the Bachelor of Science degree including MATH 317, 318, 319, 411 and 412. Cognate requirements are CPTR 218; PHYS 211:212, 213:214.

Major: Thirty hours for the Bachelor of Arts degree including MATH 318, 319, 411 and 412. CPTR 218 is a cognate requirement. For those with two majors or secondary certification the prescribed upper division course requirements are MATH 318 and 411.

Minor: Eighteen hours including MATH 115 and six hours of upper division courses.

Teaching Endorsement: The student must earn at least 24 semester hours in the subject area of his first teaching field. He may add the following endorsement by meeting the number of hours indicated below:

MATH 114	Elementary Functions and Relations . .	4 hours
MATH 115	Calculus I	5 hours
	Math elective credit including	
	six hours numbered 300 or above ..	9 hours
	TOTAL	18 hours

MATH 099. Basic Mathematics (A-2) **1 hour**

This course concentrates on the skills of arithmetic and beginning algebra and their application to everyday life situations. It does not apply on a major or minor in mathematics. Credit by examination is not available. (Fall, Spring, Summer)

MATH 103. Survey of Mathematics (A-2) **3 hours**

Prerequisite: MATH 099 or exemption.

Mathematics

130

Basic concepts from the following topics: sets, mathematical logic, number systems and numeration, number theory, probability, statistics, algebra, geometry, metric system. This course does not apply on a major or minor in mathematics. (Fall, Spring, Summer)

MATH 104. Intermediate Algebra (A-2)

3 hours

Prerequisite: MATH 099 or exemption.

Number systems and their properties, exponents and radicals, equations and inequalities, polynomial functions and their graphs, systems of equations, logarithms. This course does not apply on a major or minor in mathematics. (Fall, Spring, Summer)

MATH 114. Elementary Functions and Relations (A-2)

4 hours

Prerequisite: MATH 104 or two years of high school algebra.

The real and complex number systems; the elementary functions and their graphs, including polynomial and rational functions, exponential and logarithmic functions, trigonometric functions and their inverses; analytic geometry. Only two hours apply toward a major in mathematics. (Fall, Spring)

MATH 115. Calculus I

5 hours

Prerequisite: MATH 114 or four years of high school mathematics which include at least one semester of trigonometry and some analytic geometry.

Differential and integral calculus of the elementary functions and relations, including the definite integral, the derivative, computation of derivatives, the fundamental theorem of calculus, computation of antiderivatives, applications. (Fall, Spring)

MATH 215. Statistics

3 hours

Prerequisite: MATH 104 or an ACT mathematics standard score of 22 or above.

Elementary probability; organization and analysis of data; the binomial, normal, student's *t*, and chi-square distributions; sampling; hypothesis testing; nonparametric statistics; regression and correlation; analysis of variance. (Fall, Spring, Summer)

MATH 216. Set Theory and Logic

2 hours

Prerequisite: MATH 115.

An introduction to some of the basic ideas, terminology, and notation of logic and sets. The concept of a mathematical proof will be emphasized. (Spring)

MATH 217. Calculus II

5 hours

Prerequisite: MATH 115.

Higher derivatives, multiple integrals, infinite series, Taylor's series, partial derivatives, vector calculus, applications. (Fall)

MATH 314. Applied Finite Mathematics

3 hours

Prerequisite: MATH 215.

Linear programming—simplex method, primal/dual interpretation, trans-

portation problems. Decision theory under classical and Bayesian statistics. Game theory, inventory models and control, queuing theory. Program Evaluation and Review Technique (PERT). (Spring)

MATH 315. Differential Equations **3 hours**

Prerequisite: MATH 115.

Classification and solution of common types of ordinary differential equations, power series solutions, systems of linear differential equations, the Laplace transform, applications to problems in the physical sciences. (Spring)

MATH 316. Mathematics of Physics **3 hours**

Prerequisite: MATH 315.

Partial differential equations, Fourier series, boundary value problems, Bessel functions, Legendre polynomials. (Fall, even years)

MATH 317. Complex Variables **3 hours**

Prerequisite: MATH 216, 217.

An introduction to the theory of analytic functions of a complex variable, including mappings by elementary functions, complex integration, the Cauchy-Goursat theorem, Cauchy's integral formula, power series, Laurent series, the theory of residues, and conformal mapping. (Spring, odd years)

MATH 318. Algebraic Structures **3 hours**

Prerequisite: MATH 216, 217.

The structure of groups, rings, integral domains, and fields. (Fall, even years)

MATH 319. Linear Algebra **3 hours**

Prerequisite: MATH 115, 216.

Finite dimensional vector spaces and the attendant concepts of systems of linear equations, linear transformations, matrices, determinants, eigenvalues. (Spring, odd years)

MATH 405. Numerical Analysis **3 hours**

Prerequisites: MATH 217, 315, and a knowledge of Fortran.

Interpolation and approximation, numerical differentiation and integration, numerical methods of solving algebraic and differential equations, error analysis. (Spring, even years)

MATH 411, 412. Advanced Calculus **3,3 hours**

Prerequisite: MATH 216, 217.

The real number system, sequences, limits and metric spaces, continuity, uniform continuity, introduction to point set topology, properties of the derivatives and integrals, convergence and uniform convergence of sequences and series of functions, the Lebesgue integral, Fourier series. (Fall, odd years, and Spring, even years)

MATH 415. Geometry **3 hours**

Prerequisite: MATH 115, 216.

Topics selected from the following: foundations of Euclidean geometry,

Physics

132

finite geometries, advanced Euclidean geometry, non-Euclidean geometry, geometric transformations, the geometry of inversion, projective geometry. (Fall, odd years)

MATH 480. Scientific Writing (W)

1 hour

Principles and techniques of writing for news releases, periodicals, and research journals. The student should have done some original research of an experimental, computational, theorem-proving or metaphysical (related to PHYS 317, 318) nature before enrolling in this course.

MATH 295/495. Directed Study

1-3 hours

Prerequisite: Approval by division faculty.

Individual reading and problem solving in a field chosen in consultation with an instructor. (On demand)

(A-2), (W) See pages 19-22.

PHYSICS

Physics bridges the gap between mathematics and logic on one hand, where absolute certainty can be obtained about abstract ideas, and most of human thinking on the other hand, where only tenuous knowledge exists about the solutions to very real and pressing problems. Physics attempts to obtain progressively more precise solutions to clearly defined problems more and more representative of the real world. This attempt includes modeling, simulation, and control using numerical, analytical, analog, and experimental methods. It not only presents the possibility of a challenging career but also contributes heavily to the life-experience of non-technical people.

The staff is concerned with the preparation of technically-minded students for challenging careers in pure Physics or in Physics applied to other fields. It also attempts to demonstrate to non-technical students the value of using Physics in their areas of interest. It is committed to exploring with all students the areas where Physics touches on religious and ethical values. Throughout, it makes extensive use of the excellent digital computer facilities at SC.

Major: Thirty hours for the Bachelor of Arts, including PHYS 213:214, 310, 317, and CPTR 125.

Major: Forty hours for the Bachelor of Science, including CPTR 125.

Minor in Physics: Eighteen hours, including six hours upper division. CPTR 125 may be included.

Teaching Endorsement: The student must earn a major in the **first teaching field**. He may add the following endorsements by meeting the number of hours indicated below.

Physics

PHYS 211:212	General Physics	6 hours
	Physics electives	8 hours
PHYS 213:214	General Physics Laboratory	2 hours
	TOTAL	16 hours

General Science

BIOL 155, 156	Foundations of Biology	8 hours
	Chemistry and Physics electives	8 hours
	TOTAL	16 hours

Before the end of the sophomore year, the student must apply to the Division of Education and Human Sciences for admission to the Teacher Education Program. Before the end of the junior year, the student must apply to the Division of Education and Human Sciences for admission to the professional semester.

PHYS 107. Introduction to Physics (E-3) 3 hours

A general education course stressing the methods of physics, the application of physics and laboratory work which can be done with simple materials. Laboratories include the use of calculators and the computer to do arithmetic, the estimation of numerical quantities and errors, and the construction of apparatus with which to make observations. Does not apply on major or minor in physics. Two hours lecture, three hours laboratory each week. (Fall)

PHYS 155. Descriptive Astronomy: Creation vs. Evolution (E-3) 3 hours

Constellations and eclipses, astronomical instruments, time and the date line and calendars, astronomical objects with their motions and distances, energy processes in stars and quasars and pulsars, black holes, the infinity (?) and expansion (?) of the universe. Cosmology, the formation and subsequent histories of the solar system and the earth, radioactive and radiocarbon age dating. Life on other worlds. Astronomy and the Bible. This course, dealing as it does with the physical aspects of the history of the earth and universe, complements BIOL 325, which deals with the biological aspects. Three hours lecture each week, with the occasional substitution of an observation period. (Spring)

PHYS 211:212. General Physics (E-3) 3,3 hours

Prerequisite: MATH 114.

The algebraic and trigonometric treatment of mechanics, heat, sound, light, electricity and magnetism, and "modern physics." Applies on the basic science requirement as a non-laboratory science if taken alone and as a laboratory science if taken with PHYS 213:214. (Fall, Spring)

PHYS 213:214. General Physics Laboratory (E-3) 1,1 hours

Prerequisite: Previous or concurrent enrollment in PHYS 211:212.

Laboratory experience designed to illustrate the material in lectures, to familiarize the student with useful measuring apparatus, and to encourage a systematic development of scientific curiosity, caution, and method. (Fall, Spring)

PHYS 217, 218. Extra Hour of General Physics **1,1 hours**

Prerequisites: Concurrent or previous enrollment in PHYS 211:212; and MATH 217.

One class period per week on advanced problems and derivations based upon General Physics. (Fall, Spring)

PHYS 310. Modern Physics **3 hours**

Prerequisite: PHYS 211:212; MATH 115.

Continuation and conclusion of PHYS 211:212. Relativity, atomic structure, nuclear properties and radiations, and wave mechanical calculations in one dimension, and other areas of 20th century physics. Three hours lecture each week. Research experience is available in PHYS 495. (Fall)

PHYS 313. Physical Optics **3 hours**

Prerequisites: PHYS 211:212; MATH 115.

Refraction, reflection, interference, and absorption of light are discussed from the standpoint of the ray and especially of the wave theories of light. Laboratory experience is available in PHYS 495. (Spring)

PHYS 314. Thermodynamics **3 hours**

Prerequisites: PHYS 211:212; MATH 115.

A systematic introduction to thermodynamics, kinetic theory, and statistical mechanics of solids, liquids, and gases.

PHYS 316. Electronics **4 hours**

Prerequisites: MATH 104 and elementary knowledge of electricity.

DC and AC circuits, filters, transducers, solid state devices, power supplies, oscillators, amplifiers, and scientific devices. Designed to be useful to students in the physical sciences and in communications. Two hours lecture and five hours laboratory each week.

PHYS 317. Issues in Physical Science and Religion I (E-3) **3 hours**

Prerequisite: One year of high school physics or chemistry or one semester of college physics or chemistry.

Areas on the frontier of religion, science, and philosophy which will confront the student in his contacts with academic and professional people. Among the areas which may be considered are the fourth space dimension, the first and second scientific revolutions and their philosophic implications; dialectical materialism. (Spring, odd-numbered years)

PHYS 318. Issues in Physical Science and Religion II (E-3) **3 hours**

Prerequisites: One year of high school physics or chemistry or one semester of college physics or chemistry.

Areas on the frontier of religion, science, and philosophy which will confront the student in his contacts with academic and professional people.

Among the areas which may be considered are a Scripturally-based metaphysics attempting to correlate natural law, miracles, answered prayer, free will, and prophecy; the age of the universe, the galaxies, the stars, the solar system, and the core of the earth as indicated by Biblical and physical evidence; flood models; pure and applied science and technology; the impact of technology in the past and present and as projected into the future by pessimists, optimists, and Adventist Christians. (Spring, even-numbered years)

PHYS 410. Analytic Mechanics**3 hours**

Prerequisites: PHYS 310, MATH 315.

The motion of a particle in gravitational and other classical fields is attacked using the techniques of differential equations. The behavior of systems of particles, solids, and liquids is discussed. Special functions, vector theorems, transforms, and tensors are introduced as needed. (Spring)

PHYS 411:412. Electricity and Magnetism**3,3 hours**

Prerequisites: PHYS 310, MATH 315.

Analysis of electrical circuits. Electrostatic and magnetostatic fields, and the motion of charges therein. Maxwell's equations and the consequent prediction of electromagnetic waves. Applications to modern atomic and nuclear theory are stressed. Complex mapping, vector theorems, transforms, and special functions may be used after being introduced or reviewed. Laboratory experience is available in PHYS 499. (Fall, Spring)

PHYS 418, 419. Advanced Modern Physics**3,3 hours**

Prerequisites: PHYS 310; MATH 315; concurrent enrollment in PHYS 410 and 411:412; and MATH 316 and 317.

An advanced treatment of atomic and nuclear physics, elementary particles, wave mechanics, relativity, and other topics on the frontiers of physics. Research experience is available in PHYS 495. (Fall, Spring)

PHYS 480. Scientific Writing (W)**1 hour**

(See Mathematics listings.)

PHYS 295/495. Directed Study**1-3 hours**

Prerequisite: Consent of instructor.

This course consists of individual or group work adjusted to meet particular needs in Physics. Approval must be secured from the division head prior to registration. May be repeated for credit up to six hours. (Fall, Spring)

EARTH SCIENCE**ERSC 105. Earth Science (E-3)****3 hours**

A non-mathematical and qualitative study of astronomy, geology, and meteorology through which a non-science major will be introduced into the attitudes and methods of science. Meets General Education Requirements for Science. Special consideration will be given to current scientific theory and its relationship to the Adventist philosophy. Does not apply on major or minor.

ERSC 106. Earth Science Laboratory (E-3) 1 hour
Prerequisite: Previous or concurrent enrollment in ERSC 105.
Laboratory to accompany ERSC 105.

EDUCATION

EDUC 438. Methods of Teaching Mathematics and Physics 2 hours
Prerequisite: Admission to Teacher Education.
Attention is given to methods and materials of instruction, planning, testing, and evaluating student performances, the survey and evaluation of textbooks. Four lectures each week of the first half of the semester. (Spring)
(E-3), (W) See pages 19-22.

ENGINEERING

Advisor: Robert Moore

Walla Walla College has established an affiliation in engineering with SC whereby up to two years of the engineering program may be taken on the SC campus and the remaining two or three years at Walla Walla College. (Many students take five years to complete the engineering program.) Students desiring a Bachelor of Science in Engineering degree can choose from three areas of concentration: civil, electrical, mechanical. The WWC engineering program is fully approved by the Accreditation Board for Engineering and Technology, which is the only nationally recognized organization which regularly evaluates professional engineering curricula. The WWC engineering enrollment consists of approximately 300 students, many of whom are on various SDA college campuses for their first year or two.

In addition to the above professional degree programs, a pre-professional degree program in bioengineering is available.

The following courses are required:

Humanities/Social Studies*	6-9 hours
Physical Education	2 hours
Religion/Bible*	6-9 hours
ENGL 101:102	6 hours
INDS 149	3 hours
MATH 115, 217, 315 and/or 319	13-16 hours
CHEM 151:152	8 hours
CPTR 125	3 hours
PHYS 211:212; 213:214; 217, 218	10 hours

The Humanities/Social Studies category includes courses such as art, literature, music, economics, history, behavioral science.

* Obtain advisor's approval before taking courses in this category.

ENGR 211. Statics**3 hours**

Prerequisite: MATH 115.

Two and three dimensional equilibria employing vector algebra; friction; centroids and centers of gravity; moments of inertia.

ENGR 212. Dynamics**3 hours**

Prerequisites: MATH 115; ENGR 211.

One and two dimensional kinetics and kinematics of rigid bodies by vector calculus; dynamics of rotation, translation and plane motion; relative motion; work and energy; impulse and momentum.

ENGR 214. Circuit Analysis**3 hours**

Prerequisites: MATH 115; PHYS 211.

Circuit variables and parameters; Kirchoff's laws and circuit solution; sinusoidal steady-state; phasors and impedance; frequency characteristics; Thevenin's theorem and maximum power theorem; transients and complete response. Laboratory covers basic measurements using DC and AC meters, potentiometers, recorders and bridges.



DIVISION OF MUSIC

Chairman: Marvin L. Robertson

J. Bruce Ashton, Orlo Gilbert, Judith Glass, Larry Otto, Don Runyan

The faculty of the Division of Music believes that music is one of the arts given to man by his Creator to be used in the worship of God and to enhance the quality of man's life. In harmony with this philosophy, course work is offered which meets the needs of the general college student as well as music majors and minors.

The Division of Music offers two baccalaureate degrees, the Bachelor of Music degree in music education and the Bachelor of Arts degree in music. Both degrees require courses in music theory and history, as well as a high level of achievement in a major performance area. In addition, the Bachelor of Music degree emphasizes the skills necessary for teaching music, with special emphasis on the training of teachers for the Seventh-day Adventist school system.

ADMISSION REQUIREMENTS

Music majors must fulfill all the general admission requirements of the College. In addition, a prospective music major is required to take written and aural entrance examinations in music theory and a performance examination in the applied concentration. To obtain freshman standing as a music major the student must qualify for MUCT 111 and MUPF 179.

Further information regarding the entrance examinations may be obtained by writing the chairman of the Division of Music.

GENERAL REQUIREMENTS

Functional Piano: All music majors must pass an examination in functional piano which includes the playing of hymns, scales, triads, arpeggios, several moderately easy compositions and accompaniments, and the harmonization of simple folk melodies. The functional piano examination should be passed during the first week of the first semester in residence or the student must register for applied piano instruction. MUPF 108, 109, and 129 are designed to help the student reach the required level of proficiency.

Applied Music Credit: One semester hour of credit will be given for twelve half-hour lessons with a minimum of five hours of practice per

lesson. Applied music concentration grades are assigned by a jury examination at the end of each semester.

Concert and Recital Attendance: Music majors must attend twelve approved concerts per semester including faculty and senior recitals in his/her applied concentration area. Failure to meet this requirement will lower the student's applied music grade.

Music Ensemble Participation: All music majors are required to participate in a music ensemble every semester in full-time residence (12 or more hours). During the student teaching semester, students are exempted from this requirement.

Senior Recital: The candidate for the Bachelor of Music degree or the Bachelor of Arts degree will present a senior recital. Upon music faculty approval the senior recital requirement may be partially fulfilled through a conducting or chamber music performance.

A faculty audition of the complete program must be scheduled at least four weeks before the recital date. Unsatisfactory performance at this audition will result in a rescheduling of the recital date.

JUNIOR STANDING

Music majors must apply for junior standing at the end of the sophomore year. The requirements for junior standing are as follows:

- a. An overall grade point average of 2.0.
- b. A grade point average of 2.5 in all music courses.
- c. Completion of the functional piano requirement.
- d. Completion of MUCT 111:112, 121:122.
- e. Completion of four hours of MUPF 179 or equivalent.

Faculty evaluation of the application for junior standing will result in the student receiving one of the following classifications: (a) Pass, Bachelor of Music; (b) Pass, Bachelor of Arts; (c) Probation; (d) Fail. Junior standing requirements must be met at least two semesters before graduation.

BACHELOR OF MUSIC CURRICULUM

The Bachelor of Music degree in music education is an NCATE approved degree which meets state and denominational certification requirements. Each student will be responsible to determine the additional courses that may be required for certification in the state of his choice. This information can be obtained at the Office of Records or the Division of Education and Human Sciences.

The following general education requirements apply only to students pursuing a Bachelor of Music degree:

A. Basic Academic Skills		9-10 hours
1. English	6 hours	
2. Mathematics	3-4 hours	
B. Religion		12 hours
1. Biblical Studies	3 hours	
2. Religion: RELT 155, 238, and PHYS 317, 318 or BIOL 325	9 hours	
C. History, Political and Economic Systems		9 hours
1. History	6 hours	
2. Political Science and Economics	3 hours	
D. Language, Literature, Fine Arts		7 hours
1. Foreign Languages (Intermediate level)	0-4 hours	
2. Literature	0-3 hours	
3. Art Appreciation and Music	4 hours	
E. Natural Sciences		6 hours
1. Biology	0-3 hours	
F. Behavioral, Family, Health Sciences		5 hours
1. Behavioral Science: EDUC 217	3 hours	
2. Health Science: HLED 173	2 hours	
G. Activity Skills		6 hours
1. Creative Skills	3 hours	
2. Practical Skills	0-3 hours	
3. Recreational Skills	0-3 hours	
TOTAL		54-55 hours

BACHELOR OF MUSIC IN MUSIC EDUCATION

Music Core:

MUCT 111:112	Music Theory I, II	6 hours
MUCT 121:122	Aural Theory I, II	2 hours
MUCT 211:212	Advanced Music Theory III, IV	6 hours
MUCT 221:222	Advanced Aural Theory III, IV	2 hours
MUHL 115	Listening to Music	2 hours
MUHL 314:315	History of Music	6 hours
MUPF 179	Concentration (Instrument or Voice)	4 hours
*MUPF 379	Concentration (Instrument or Voice)	7 hours
MUPF 129	Secondary (Instrument or Voice)	2 hours
MUPF 477	Instrumental Conducting Techniques	3 hours
MUPF 478	Choral Conducting Techniques	3 hours
	Music Ensembles	7 hours
TOTAL		50 hours

- *1. Organ majors must take two hours of MUPF 279, *Service Playing*, in lieu of two hours of MUPF 379.
- *2. Piano majors may take two hours of MUPF 378, *Ensemble Experience (Accompanying)*, in lieu of two hours of MUPF 379.
- *3. A student with a special aptitude for conducting or composition may petition the music faculty to substitute up to three hours of MUPF 378 or MUCT 495 for up to three hours of MUPF 379.

Choral/School Music Teaching Endorsement: (For vocal majors. May be elected by keyboard majors.)

MUCT 313	Orchestration and Arranging or MUCT 413 Analysis of Music Form ..	3 hours
Music Education:	Pedagogy in the applied concentration and two of the following: MUED 136, 146, 156, 166, 226, 316, 317, 318 (voice majors must include MUED 226)	6 hours

Instrumental Teaching Endorsement: (For instrumental majors. May be elected by keyboard majors.)

MUCT 313	Orchestration and Arranging	3 hours
Music Education:	Three of the following: MUED 136, 146, 156, 166, 316, 318. (Keyboard majors must include pedagogy in the applied concentration.)	6 hours

Education Core: (Before the end of the sophomore year, the student must apply to the Education Department for admission to the Teacher Education Program. Before the end of the junior year, the student must apply to the Education Department for admission to the professional semester.)

EDUC 133	Principles and Organization of Education	3 hours
EDUC 217	Psychological Foundations of Education	3 hours
EDUC 231	Elem. Methods in Curriculum and Instruction: Music	2 hours
EDUC 240	Education of the Exceptional Student	2 hours
EDUC 356	Tests and Measurements	2 hours
EDUC 425	Foundations of American Education .	3 hours
EDUC 437	Curriculum and General Methods	2 hours
EDUC 438	Special Methods	2 hours
EDUC 468	Student Teaching, 7-12	6 hours
		25 hours

BACHELOR OF ARTS CURRICULUM

The Bachelor of Arts in music is a non-professional degree designed to give the student a broad understanding of the musical heritage of man. This major consists of forty hours including fourteen upper division. Courses must include the following:

Music Theory including MUCT 111:112; 121:122;	
211:212; 221:222	19 hours
MUHL 115 — Listening to Music	2 hours
MUHL 314:315 — History of Music to 1750/1750 to Present	6 hours
MUPF 179 and 379 — Concentration	8 hours
Music Ensembles	5 hours

A student must complete all general education requirements of the College.

The foreign language recommended is either French or German.

Music Minor: Eighteen hours including the following:

MUCT 111:112 — Music Theory I and II	6 hours
MUHL 115 — Listening to Music	2 hours
MUPF 179 — Concentration	2 hours
MUPF 477 or 478 — Instrumental or Choral Conducting Techniques	3 hours
Music Course Electives (including three hours upper division)	5 hours
	18 hours

MUSIC THEORY

MUCT 100. Introduction to Music Theory **2 hours**

A study of the rudiments and basic vocabulary of music theory. Does not apply toward a music major or minor. (Spring, Summer)

MUCT 111:112. Music Theory I and II **3,3 hours**

Prerequisite: MUCT 100 or examination.

A study of the elements which render music of all periods aurally and visually comprehensible, within simple forms and a variety of textures from one to four voices. Music Theory I may not be repeated more than once. (Fall, Spring)

MUCT 121:122. Aural Theory I and II **1,1 hours**

A laboratory for the development of keyboard and sight-singing skills related to the materials introduced in MUCT 111:112. Music majors must take this concurrently with MUCT 111:112. (Fall, Spring)

MUCT 211:212. Advanced Music Theory III and IV **3,3 hours**

Prerequisite: MUCT 111:112.

An expanded and intensified study of the structure of music as begun in MUCT 111:112. In MUCT 212, contemporary music is emphasized. (Fall, Spring)

MUCT 221:222. Advanced Aural Theory III and IV **1,1 hours**

Keyboard and sight-singing applications of materials studied in MUCT 211:212. Music majors must take this concurrently with MUCT 211:212. (Fall, Spring)

MUCT 313. Orchestration and Arranging **3 hours**

Prerequisite: MUCT 111:112.

The ranges, capabilities and limitations, and transpositions of orchestra and band instruments. Idiomatic scoring of short works for vocal and instrumental chamber groups, small orchestra, and band. Performance of exercises and analysis of scores is emphasized. (Spring)

MUCT 413. Analysis of Music Form **3 hours**

Prerequisite: MUCT 211:212 or permission of instructor.

An analytical study of musical structure from the smallest units of form to the more complex music of all historical periods. (Spring)

MUCT 295/495. Directed Study **1-3 hours**

Individual study open to music majors and other qualified students. Content to be arranged. Approval must be secured from the division chairman prior to registration. May be repeated up to a total of three hours. (Fall, Spring, Summer)

MUSIC HISTORY

MUHL 115. Listening to Music (D-3) **2 hours**

A course designed to acquaint the student with the major composers, musical styles, and forms from the Baroque era to the present. Two listening periods per week are required. (Fall)

MUHL 314. History of Music to 1750 (D-3), (W) **3 hours**

Prerequisite: MUHL 115, MUCT 111:112, or permission of instructor.

A study of music literature from antiquity to 1750 including cultural backgrounds, development of music form and style, and analysis of representative masterworks from each major period of music history. Two listening periods per week are required. (Fall)

MUHL 315. History of Music, 1750 to Present (D-3), (W) **3 hours**

Prerequisite: MUHL 115, MUCT 111:112 or permission of instructor.

A study of music literature from 1750 to the present, including cultural backgrounds, development of music form and style, and analysis of representative masterworks from each major period of music history. Two listening periods per week are required. (Spring)

MUSIC EDUCATION

MUED 136. String Materials and Methods **2 hours**

A study of the stringed instruments, including methods and materials for class and private instruction. Observation of classroom and private instruction is required. (Fall)

MUED 146. Brass Materials and Methods**2 hours**

A study of tone production, performance techniques, embouchure, fingerings, practical pedagogic technique, and simple repairs. A survey of literature for the instruments and evaluation of teaching methods. Observation of classroom and private instruction is required. (Spring)

MUED 156. Woodwind Materials and Methods**2 hours**

A study of tone production, embouchure, fingerings, practical pedagogic technique, and simple repairs. A survey of the literature for the instruments and evaluation of teaching methods. Observation of classroom and private instruction is required. (Fall)

MUED 166. Percussion Materials and Methods**2 hours**

A study of percussion instruments, including methods and materials for class and private instruction. Observation of classroom and private instruction is required. (Spring)

MUED 226. Singers Diction**2 hours**

Prerequisite: Two hours MUPF 179.

A study of the correct pronunciation of Italian, German, French, and English. (Fall)

MUED 316. Piano Pedagogy**2 hours**

Prerequisite: Two hours of MUPF 179 or equivalent.

Methods, materials, and procedures for private and class piano instruction; planning a complete program for pupils on various grade levels including technic, repertoire, and musicianship. Observation and teaching is required. (Spring)

MUED 317. Voice Pedagogy**2 hours**

Prerequisite: Two hours of MUPF 179 or equivalent and permission of instructor.

Methods, materials, and procedures for private and class voice instruction; testing and classification of voices; physiological and psychological problems of voice production and diction. Observation and teaching is required. (Fall)

MUED 318. Organ Pedagogy**2 hours**

Prerequisite: Two hours of MUPF 179 or equivalent.

Methods, materials, and procedures for instruction in organ; accompaniment of church services; registration of organ literature on various types of organs. Observation and teaching is required. (Spring)

CHURCH MUSIC**MURE 200. Ministry of Music (D-3) (Theology majors only)****3 hours**

A study of the rudiments of music, methods of conducting congregational singing, and principles and standards of music for the church. (Fall, Spring)

APPLIED MUSIC

- MUPF 108. Group Instruction (G-1)** **1 hour**
 A course designed for the beginning student in piano or voice. The proper techniques of both speaking and singing are emphasized in voice class. (Fall, Spring)
- MUPF 109. Group Instruction (G-1)** **1 hour**
 A continuation of MUPF 108. (Spring)
- MUPF 129. Secondary (G-1)** **1-2 hours**
 Private instruction in voice, piano, organ, or orchestral instrument. (Fall, Spring, Summer)
- MUPF 179. Concentration (G-1)** **1-2 hours**
 Prerequisite: Examination for freshman standing.
 Private instruction in voice, piano, organ, or orchestral instrument. (Fall, Spring, Summer)
- MUPF 279. Service Playing (G-1)** **1 hour**
 Prerequisite: Two hours MUPF 179 (organ) or permission of instructor.
 The development of skills requisite to playing both liturgical and non-liturgical services, including hymn playing, choral and solo accompanying, conducting from the console, improvisation and modulation, and selection of appropriate preludes, offertories, and postludes. Performance experience required. (Fall, Spring)
- MUPF 329. Secondary (G-1)** **1-2 hours**
 Private instruction in voice, piano, organ, or orchestral instrument. (Fall, Spring, Summer)
- MUPF 379. Concentration (G-1)** **1-2 hours**
 Prerequisite: MUPF 179 for four hours or equivalent.
 Private instruction in voice, piano, organ, 1/2r orchestral instrument. (Fall, Spring, Summer)
- MUPF 477. Instrumental Conducting Techniques (G-1)** **3 hours**
 Basic conducting techniques including beat patterns, cues, and expressive gestures. Experience in conducting instrumental ensembles is included. (Spring)
- MUPF 478. Choral Conducting Techniques (G-1)** **3 hours**
 Basic conducting techniques including beat patterns, cues, expressive gestures, and vocal problems. Experience in conducting choral ensembles is included. (Fall)

Courses MUPF 108, 109, 129, and 329 are open to any student of the College as elective credit toward the B.A. or B.S. degree. The music major or minor may not apply these toward his applied music concentra-

tion. Students desiring to study organ must pass the Functional Piano Examination.

Courses MUPF 179 and 379 are courses primarily for the music major and minor, but they may be elected by anyone who passes the examination for freshman standing. Jury examinations are required with these course numbers.

The following performance areas may be studied: voice, piano, classical guitar, organ, violin, viola, cello, double bass, flute, oboe, clarinet, saxophone, bassoon, trumpet, French horn, trombone, baritone tuba, and percussion instruments.

CHORAL ENSEMBLES

Choral ensembles are open to all college students through audition. Each ensemble meets two periods per week for one hour credit each semester. Regular attendance at rehearsals is required.

Students who are members of Collegiate Chorale, Southern Bel Canto, Die Meistersinger, or Vocal Ensemble Experience must be registered concurrently in Symphonic Choir. Tuition is charged for Symphonic Choir only.

Ensembles on campus are organized and sponsored by members of the music faculty.

MUPF 118, 318. Ladies' Chorus —

Southern Bel Canto (G-1)

1 hour

Concurrent registration in MUPF 198 or 398 required. Tuition charged for MUPF 198 or 398 only. (Fall, Spring)

MUPF 158, 358. Die Meistersinger Male Chorus (G-1)

1 hour

Concurrent registration in MUPF 198 or 398 required. Tuition charged for MUPF 198 or 398 only. (Fall, Spring)

MUPF 168, 368. Collegiate Chorale (G-1)

1 hour

Concurrent registration in MUPF 198 or 398 required. Tuition charged for MUPF 198 or 398 only. (Fall, Spring)

MUPF 188, 388. Vocal Ensemble Experience

1 hour

Concurrent registration in MUPF 198 or 398 required. Tuition charged for MUPF 198 or 398 only. (Fall, Spring)

MUPF 198, 398. Symphonic Choir (G-1)

1 hour

Symphonic Choir meets once each week to prepare major choral works, at least one of which will be performed with orchestral accompaniment. Symphonic Choir will generally perform twice a semester. (Fall, Spring)

INSTRUMENTAL ENSEMBLES

Instrumental ensembles are open to all college students through audition. Each ensemble meets three periods per week and offers one hour credit each semester. Regular attendance at rehearsals is required.

Course numbers MUPF 178 and 378 do not fulfill the music ensemble participation requirement for music majors except those taking a keyboard concentration. Music majors other than those taking a keyboard concentration who wish Instrumental Ensemble Experience credit, must be registered concurrently in Concert Band or Symphony Orchestra.

Ensembles on campus are organized and sponsored by members of the music faculty.

MUPF 128, 328. Concert Band (G-1) (Fall, Spring)	1 hour
MUPF 138, 338. Symphony Orchestra (G-1) (Fall, Spring)	1 hour
MUPF 178, 378. Instrumental Ensemble Experience (G-1) (Fall, Spring)	1 hour

EDUCATION

EDUC 231. Elementary Methods in Curriculum and Instruction: Music	2 hours
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Prerequisite: MUCT 100 (or permission of instructor) or MUHL 115.

A course designed to prepare teachers to direct the music activities in the elementary school. The content includes fundamentals, appreciation, singing, playing, and rhythmic activities. Observation and participation in the music program of the elementary school is required. Two hours lecture and one hour laboratory work per week. (Fall, Spring, Summer)

EDUC 438. Methods of Teaching Music	2 hours
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Prerequisite: Admission to Teacher Education.

Attention is given to methods and materials of instruction, planning, testing, and evaluating student performances, the survey and evaluation of textbooks. Four lectures each week of the first half of the first semester during the senior year. (Fall)

(D-3), (G-1), (W) See pages 19-22.

DIVISION OF NATURAL SCIENCE

Chairman: David Steen

Biology

Ron Carter
Edgar Grundset
Duane Houck
David Steen
Marcella Woolsey

Chemistry

Wiley Austin
Mitchell Thiel
Steven Warren

The study of the science of Biology and Chemistry constitutes one of the most important fields of learning since it deals with the nature of life itself. The aim of the Division of Natural Science is to offer sufficient courses to supply the needs of those students bound for graduate schools, professional schools, industry, education, or for the more casual interests of students with other majors.

Relative to spiritual values, the following statement reflects the philosophy of the Division of Natural Science.

All true science is but an interpretation of the handwriting of God in the material world. Science brings from her research only fresh evidence of the wisdom and power of God. Rightly understood, both the book of nature and the written word make us acquainted with God by teaching us something of the wise and beneficent laws through which He works.

— Ellen G. White, *Patriarchs and Prophets*, page 599.

BIOLOGY

A student majoring in Biology should plan his entire program with a member of the Biology staff. His program should then be approved by the departmental staff. The program must meet graduation and general education requirements as outlined elsewhere in this catalog.

Major: Thirty hours for the Bachelor of Arts degree including BIOL 155, 156, 316, 325, 408 or 409 or 410, 418 or 419, and 485. Up to three hours of CHEM 323 may apply on a major or minor. Cognate require-

Biology

150

ment: CHEM 151:152. A course in general physics is highly desirable. A minor in chemistry is recommended.

Major: Forty hours for the Bachelor of Science degree including BIOL 125, 126, 155, 156, 316, 325, 408 or 409 or 410, 412, 415, 418 or 419, and 485. Up to three hours of CHEM 323 may apply on a major. Cognate requirements: CHEM 151:152; MATH 114 and 215. A course in general physics is highly desirable.

Minor: Eighteen hours including BIOL 155, 156 (or equivalent). A course in physiology is strongly recommended. Up to three hours of CHEM 323 may apply on a minor. A minimum of six hours must be in upper division.



Teaching Endorsement: The student must earn a major in the subject area of his first teaching field. He may add the following endorsements by meeting the number of hours indicated below.

Biology

BIOL 155, 156	Foundations of Biology	8 hours
	Biology electives	<u>8 hours</u>
	TOTAL	16 hours

General Science

BIOL 155, 156	Foundations of Biology	8 hours
	Chemistry and Physics electives	<u>8 hours</u>
	TOTAL	16 hours

Sample First Year Schedule:

		1st Sem.	2nd Sem.
BIOL 155, 156	Foundations of Biology	4	4
CHEM 151,152	General Chemistry*	4	4
ENGL 101, 102	College Composition	3	3
MATH 114	Elementary Functions		4
RELT	Religion Elective	3	
	Elective	<u>2</u>	<u>1</u>
		16	16

*Refer to General Chemistry prerequisites.

Before the end of the sophomore year, the student must apply to the Division of Education and Human Sciences for admission to the Teacher Education Program. Before the end of the junior year, the student must apply to the Division of Education and Human Sciences for admission to the professional semester.

AGRI 100. Science of Gardening (G-2) 3 hours

Scientific principles of plant growth with emphasis on food crops. Various aspects of gardening culture emphasized are requirements for plant growth, soil building, crop nutrition, identification and control of diseases and insects, and plant propagation. Two hours lecture and three hours laboratory. (Fall, Spring)

BIOL 103. Principles of Biology (E-1) 3 hours

This is a basic general education biology course designed to give the student a modern treatment of the fundamental processes and principles of plant and animal life. Three lectures each week. Does not apply on a major or minor. (Fall, Spring, Summer)

BIOL 104. Principles of Biology Lab (E-1) 1 hour

Prerequisites: Previous or concurrent enrollment in BIOL 103.

Laboratory exercises designed to illustrate the principles learned in BIOL 103. Three hours of laboratory each week. (Fall, Spring, Summer)

Biology

152

BIOL 105:106. Anatomy and Physiology (E-1) 3,3 hours

A study of the fundamentals of human anatomy and physiology. Two lectures and one laboratory period each week. Does not apply on a major. (Fall, Spring, Summer)

BIOL 125. Microbiology (E-1) 3 hours

A general study of bacteria, viruses, yeasts, molds, and pathogenic protozoa. Special consideration is given to the relationship of microorganisms to health and disease. Course 125 alone does not apply on a major. Two lectures and one laboratory period each week. (Fall, Spring)

BIOL 126. Microbiology (Extra Hour) 1 hour

A study of environmental and industrial microbiology, and immunology: especially antigen-antibody properties, host-antigen interaction, humoral and cellular immune systems. One hour lecture each week. (Spring)

BIOL 155:156. Foundations of Biology (E-1) 4,4 hours

This is an introductory course in biology open to all college students. The course is designed to give the non-science student a modern treatment of the fundamental processes of plant and animal life as well as to provide a satisfactory basis upon which a biology major may build. Three lectures and one laboratory period each week. (Fall, Spring)

BIOL 205. Human Biology (E-1) 3 hours

This course encompasses the development, structure, and function of the human body related to everyday living. The course is designed to apply on the basic science requirement for non-science students. A student may not receive credit for both BIOL 105, 106 and 205. Does not apply on a major. Three lectures each week. (Spring)

BIOL 226. Environmental Biology (E-1) 3 hours

This very relevant course introduces the student to the very complex interlocking environmental problems facing us today. Beginning with basic ecological principles, the course goes on to examine population dynamics, energy utilization, resource consumption and the various forms of pollution. These issues are all discussed in terms of a balanced and rational ecological approach. Three lectures each week. (Fall, odd years)

BIOL 227. Animal Behavior (E-1) 3 hours

A foundation course in the field of animal behavior emphasizing classical experiments and their historical perspective. Contributions from diverse disciplines such as neurophysiology, ecology, endocrinology, and sociology are drawn together to illustrate the dependence of ethology and psychology on the other life sciences. Three lectures each week. (Spring)

BIOL 295. Directed Study 1-3 hours

See BIOL 495.

BIOL 313. Embryology 3 hours

Prerequisite: BIOL 155, 156 or consent of instructor.

An introduction to the development of the vertebrate animal with emphasis on the development of the chick. Two lectures and one laboratory period each week. (Fall)

BIOL 314. Ornithology (E-1) 3 hours

Prerequisite: BIOL 103, or 156 or consent of instructor.

A systematic study of bird life with special emphasis on external features. Taxonomy, nesting, and feeding habits, flight and migratory patterns. Two lectures and one laboratory period each week. An extended field trip, which applies toward laboratory credit, is planned during spring vacation. There is a small additional charge to help cover transportation. (Spring)

BIOL 315. Parasitology 3 hours

Prerequisite: BIOL 156 or consent of instructor.

A general survey of the more important parasites of man and domestic animals. Two lectures and one laboratory period each week. (Fall)

BIOL 316. Genetics 3 hours

Prerequisite: BIOL 125 or 155, or consent of instructor.

A study of heredity as related to man, domestic plants and animals and an investigation of gene structure and function. Two lectures and one laboratory period each week. (Fall)

BIOL 317. Ecology 3 hours

Prerequisite: BIOL 156 or consent of instructor.

Ecology is a study of the interrelationships of plants, animals and their environment. This course will examine these interactions in the context of energy flow, nutrient cycles, limiting factors, succession and population dynamics. Field work will introduce various ecological sampling techniques and the student will participate in ecological analysis of various local communities as well as on extended field trips. Two lectures and one field trip or laboratory period each week. (Fall)

BIOL 318. Ichthyology 3 hours

Prerequisite: BIOL 155, 156 or consent of instructor.

A systematic study of the fishes found in the local area, with a survey of the fishes of other waters. Two lectures and one laboratory period each week. (Fall, odd years)

BIOL 319. Herpetology 3 hours

Prerequisite: BIOL 155, 156 or consent of instructor.

A systematic study of amphibians and reptiles of the local area, with a survey of amphibians and reptiles of other areas. Two lectures and one laboratory period each week. (Fall, even years)

BIOL 325. Issues of Natural Science and Religion (E-1), (W) 3 hours

A survey of the theories of origins and the extent of variations among animals today. Special attention is given to the factual basis for the theories of special creation and evolution. Credit can be applied toward either a Biology or a Religion major or minor. Three lectures each week. (Fall)

BIOL 408, 409, 410. Systematic Field Botany **3,3,3 hours**

Prerequisite: BIOL 156 or consent of instructor.

A study of local flora and the use of plant keys and manuals for plant identification. A systematic study of the classification of trees, shrubs, wildflowers, ferns, mosses, fungi, algae, and lichens will be made, emphasizing plant groups that are prominent during the course. Frequent field trips will be conducted to study plants in their natural environment, including one extended field trip to the Great Smoky Mountains. Two lectures and one field trip or laboratory period each week. (Fall, Spring, Summer)

BIOL 411. Mammalogy **3 hours**

Prerequisites: BIOL 155, 156 or consent of instructor.

A study of the mammals of the world, with emphasis on North America. Includes classroom and field study of systematics, distribution, behavior and ecology. Two lectures and one laboratory each week. (Fall, odd years)

BIOL 412. Cell Biology **3 hours**

Prerequisites: BIOL 155, 156; CHEM 311, 312.

This course, designed for advanced biology and chemistry majors, deals primarily with cell structure and function. Building on cellular principles learned in BIOL 155, 156, the student is exposed to methods of cellular research while learning about the appearance and operation of cellular organelles. The exciting details of cell integration and control provide the framework for this interdisciplinary study. Two lectures and one laboratory each week. (Spring)

BIOL 415. Comparative Anatomy **3 hours**

Prerequisite: BIOL 155, 156 or consent of instructor.

A comparison of the anatomy of the various organ systems of vertebrates. The dogfish shark, mud puppy, cat, and/or fetal pig are used for laboratory study. Two lectures and one laboratory period each week. (Spring)

BIOL 417. Animal Histology **3 hours**

Prerequisite: BIOL 155, 156 or consent of instructor.

A descriptive study of normal tissues, including those of man. The microscopic identification and characteristics of stained section is emphasized in the laboratory. One lecture and two laboratory periods each week. (Spring, even years)

BIOL 418. Animal Physiology **3 hours**

Prerequisite: BIOL 106, 156, or equivalent and CHEM 151:152 or equivalent.

A study of the principles of animal function with special attention to man. Two lectures and one laboratory period each week. (Spring)

BIOL 419. Plant Physiology **3 hours**

Prerequisite: BIOL 155, 156 and CHEM 151:152 or consent of instructor.

A study of the functions of seed plants. Topics covered include water relations, mineral nutrition, photosynthesis, transpiration, translocation, respiration, and growth. Two lectures and one laboratory period each week. (Fall)

BIOL 485. Biology Seminar (W)**1 hour**

Open to Biology majors or minors only or with approval of Biology staff. Reports are made on some specific problem in the field of Biology and on current literature in the field. To be taken in the senior year or with approval of Division Chairman. (Fall or Spring)

BIOL 295/495. Directed Study**1-3 hours**

Prerequisite: BIOL 155, 156 or equivalent.

BIOL 495 open to Biology majors or minors only.

Designed for the student who wishes to do private study or research or for a group of students who wish a special course not listed in the regular offerings. Examples: mammalogy, economic botany, cell biology, etc. Content and method of study must be arranged for prior to registration. (Fall or Spring)

EDUCATION**EDUC 438. Methods of Teaching Biology****2 hours**

Prerequisite: Admission to Teacher Education.

Attention is given to methods and materials of instruction; planning, testing, and evaluating student performances; and the survey and evaluation of textbooks. Four lectures each week of the first half of the second semester during the senior year. (Spring)

(E-1), (W) See pages 19-22.

CHEMISTRY

Major: Thirty hours for the Bachelor of Arts degree, including CHEM 151:152, 311:312, 313:314, 315, 321, 485. CHEM 411:412, 413:414 may be substituted for CHEM 315, 321, and CHEM 497 may be substituted for CHEM 485. The first course in Calculus is a cognate requirement. CPTR 125 is strongly recommended.

Major: Forty hours for the Bachelor of Science degree with a major in Chemistry including CHEM 151:152, 311:312, 313:314, 315, 321, 325, 411, 412, 413, 414, 485, and 497 are required. Cognate requirements are: PHYS 211:212, 213:214, MATH 115, 217, CPTR 125. Three hours of upper division mathematics may be substituted for MATH 217. German or French is highly recommended. This course of study is designed for the professional chemist.

One of the following may be applied on the major for either the B.A. or the B.S.: an upper division physics course (except PHYS 317 or 318), or PHYS 217 or 218.

General Education Requirements: The general education requirements for the above programs are listed elsewhere in this catalog.

Chemistry

156

Minor: Eighteen hours, six of which must be upper division.

Teaching Endorsement: The student must earn a major in the subject area of his first teaching field. He may add the following endorsements by meeting the number of hours indicated below.

Chemistry

CHEM 151:152	General Chemistry	8 hours
	Chemistry electives	<u>8 hours</u>
	TOTAL	16 hours

General Science

BIOL 155, 156	Foundations of Biology	8 hours
	Chemistry and Physics electives	<u>8 hours</u>
	TOTAL	16 hours

Before the end of the sophomore year, the student must apply to the Division of Education and Human Sciences for admission to the Teacher Education Program. Before the end of the junior year, the student must apply to the Division of Education and Human Sciences for admission to the professional semester.

CHEM 103. Pre-General Chemistry 2 hours

Basic concepts in chemistry and mathematics as needed to begin General Chemistry. Two hours of lecture each week. Does not apply on a minor or major. Taught second semester only. (Spring)

CHEM 111:112. Survey of Chemistry (E-2) 3,3 hours

Prerequisite: A course in high school algebra.

A survey course designed to familiarize the student with the basic principles of inorganic, organic and biochemistry. Three hours of lecture each week. Does not apply to a major or minor. (Fall, Spring, Summer)

CHEM 113:114. Survey of Chemistry Laboratory (E-2) 1,1 hours

Prerequisite: Previous or concurrent enrollment in CHEM 111:112.

Laboratory material designed to illustrate the material in lectures of CHEM 111:112. Three hours of laboratory each week. (Fall, Spring)

CHEM 151:152. General Chemistry (E-2) 4,4 hours

Prerequisites: High school chemistry and mathematics through Intermediate Algebra or Pre-General Chemistry.

An introduction to the fundamental laws and accepted theories along with applications to the various fields of chemistry. Three hours of lecture and three hours of laboratory each week. (Fall, Spring)

CHEM 201:202. Concepts of Biochemistry (E-2) 3,3 hours

Prerequisite: CHEM 103 or successful completion of a high school chemistry course.

A review of basic chemistry and an introduction to the fundamental biochemistry of the body with emphasis on physiological chemistry. Three hours of lecture each week. Does not apply towards a major or minor. (Fall, Spring)

CHEM 311:312. Organic Chemistry **3,3 hours**

Prerequisite: CHEM 151:152 or its equivalent.

A study of the aliphatic and aromatic compounds of carbon and their reactions. Three hours of lecture each week. (Fall, Spring)

CHEM 313:314. Organic Chemistry Laboratory **1,1 hours**

Prerequisite: Previous or concurrent enrollment in CHEM 311:312.

Laboratory material designed to illustrate the material in lectures of CHEM 311:312. Three hours of laboratory each week. (Fall, Spring)

CHEM 315. Analytical Chemistry **4 hours**

Prerequisite: CHEM 151:152.

A study of equilibria as it applies to analytical chemistry. Techniques of determinations, sampling, handling of data, and the detailed chemistry involved is studied in terms of quantitative determinations. Three hours of lecture and three hours of laboratory each week. (Fall)

CHEM 321. Instrumental Analysis **4 hours**

Prerequisite: CHEM 315.

A study of the theories, techniques and instruments involved in spectrometry, chromatography, electrochemistry and radiochemistry. Three lectures and one laboratory session per week. (Spring)

CHEM 323. Biochemistry **4 hours**

Prerequisite: CHEM 311:312 or CHEM 311 and concurrent enrollment in CHEM 312.

The materials, mechanisms, and end products of the processes of life under normal and pathological conditions are studied. Four hours of lecture each week. (Spring)

CHEM 324. Biochemistry Laboratory **1 hour**

Prerequisite: Previous or concurrent enrollment in CHEM 323.

Laboratory material designed to illustrate the material in lectures of CHEM 323. Three hours of laboratory each week. (Spring)

CHEM 325. Organic Qualitative Analysis **2 or 3 hours**

Prerequisite: CHEM 311:312; 313:314.

Application of solubility principles, classification reactions, and the preparation of derivatives for the identification of both pure compounds and mixtures. Two hours of lecture for nine weeks, and three or six hours of laboratory each week. Offered on sufficient demand. (Fall)

CHEM 333. Advanced Inorganic Chemistry **3 hours**

Prerequisite: CHEM 151:152.

A systematic discussion of the elements including a study of coordination

Chemistry

158

compounds, noble gases, and the current bonding theories. Three hours of lecture each week. (Fall, odd years)

CHEM 411. Physical Chemistry **3 hours**

Prerequisites: CHEM 151:152; CPTR 125 or 218; PHYS 211:212; MATH 115.

A study of gases, kinetic theory, liquids, solids, and thermodynamics. Three hours of lecture each week. Taught alternate years. (Fall, even years)

CHEM 412. Physical Chemistry **3 hours**

Prerequisite: CHEM 411.

A study of electrochemistry and conductivity, reaction kinetics, molecular structure, nuclear chemistry, absorption and colloids. Three hours of lecture each week. Taught alternate years. (Spring, odd years)

CHEM 413, 414. Physical Chemistry Laboratory **1,1 hours**

Prerequisites: CHEM 315, also CHEM 411, 412 must be taken concurrently or previously. Experiments chosen to illustrate material in CHEM 411, 412. One laboratory period each week. (Fall, Spring)

CHEM 485. Chemistry Seminar (W) **1 hour**

Prerequisite: CHEM 311:312.

Written and oral reports are made on specific topics in the chemistry field. To be taken in the junior or senior year. (Fall)

CHEM 295/495. Directed Study **1-3 hours**

Prerequisite: CHEM 151:152.

Designed for junior and senior students who wish to do private study or for a group of students who wish a special course on topics not taught under the regular class offerings. (Fall, Spring)

CHEM 497. Introduction to Research (W) **1 to 2 hours**

Prerequisite: 20 hours of chemistry or permission of the instructor.

Individual research under the direction of the members of the staff. Problems are assigned according to the experience and interest of the student. Prior to registration, two semesters before graduation, students are urged to contact all chemistry staff members with respect to choice of available problems. Should be taken not later than the first semester of the senior year. (Fall, Spring)

EDUCATION

EDUC 438. Methods of Teaching Chemistry **2 hours**

Prerequisite: Admission to Teacher Education.

Attention is given to methods and materials of instruction, planning, testing, and evaluating student performances, the survey and evaluation of textbooks. Four lectures each week of the first half of the second semester during the senior year. (Spring)

Allied Health Professions

Taught on the Orlando Campus

CHEM 203. Concepts of Biochemistry

4 hours

159

(E-2), (W) See pages 19-22.

ASSOCIATE DEGREE PROGRAMS IN ALLIED HEALTH PROFESSIONS

The Allied Health Professions are rapidly growing areas of specialization within the health care industry. Job openings are plentiful and pay scales are comparable to other professionals in health care. The Associate of Science degree in Allied Health Professions prepares the student for admission to professional programs at Loma Linda University or Andrews University. Admission to any professional school is dependent on meeting the GPA and prerequisite requirements of the individual school. Students desirous of admission to other professional programs should check the bulletin of that school to ascertain the requirements.

General Education requirements for the Associate of Science degree are listed on pp. 19-22 of the Catalog. General education requirements for admission to professional schools at Loma Linda University are summarized as follows. For specific requirements, consult pp. 189-193 of this Catalog or the appropriate Bulletin for the professional school of your choice.

ENGL 101:102	College Composition	6 hours
	Religion/Bible	6-9 hours
	Speech	2-3 hours
	Humanities*	
	(including Speech)	total 8-12 hours
	Social Sciences*	total 8-12 hours
	electives and general education to total	
	64 semester hours	

* Specific options in these areas listed in College Catalog and in Bulletins for professional schools. Some of these requirements may be met by required professional courses.

There are seven emphases in the Allied Health Professions degree: pre-Dental Hygiene, pre-Dietetics, pre-Medical Record Administration, pre-Occupational Therapy, pre-Physical Therapy, pre-Radiology Technology, and pre-Respiratory Therapy. Requirements for each are given below.

PRE-DENTAL HYGIENE

Advisor: Ron Carter

BIOL 105:106	Anatomy and Physiology	6 hours
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Allied Health Professions

160

BIOL 125	Microbiology	3 hours
CHEM 111:112	Survey of Chemistry	6 hours
CHEM 113:114	Survey of Chemistry Lab.	2 hours
PSYC 124	Intro to Psychology	3 hours
SOCI 125	Intro to Sociology	3 hours
	TOTAL	23 hours

PRE-DIETETICS

Advisor: Alice Williams

MATH 104	Intermediate Algebra	3 hours
FDNT 125	Nutrition	3 hours
FDNT 126	Foods	2 hours
FDNT 127	Food Preparation	1 hour
FDNT 317	Meal Management	3 hours
ACCT 103	College Accounting	3 hours
ECON 213	Survey of Economics	3 hours
BIOL 105:106	Anatomy and Physiology	6 hours
	(BIOL 105 may be waived if ACT in Nat. Sci. is high enough and with approval of advisor)	
BIOL 125	Microbiology	3 hours
CHEM 111:112	Survey of Chemistry	6 hours
CHEM 113:114	Survey of Chemistry Lab.	2 hours
	(those planning on graduate work in nutrition or dietetics should take CHEM 151:152, CHEM 311:312, and CHEM 323)	
PSYC 124	Introduction to Psychology	3 hours
SOCI 125	Introduction to Sociology	3 hours
	(students applying to AU should take Psychology OR Sociology and should include CPTR 125 Intro. to Computers)	
	TOTAL	41 (38) hours

PRE-MEDICAL RECORDS ADMINISTRATION

Advisor: Joyce Cotham

BIOL 105:106	Anatomy and Physiology	6 hours
MATH 104	Intermediate Algebra	3 hours
PSYC 124	Introduction to Psychology	3 hours
SECR 315	Business Communications	3 hours

Allied Health Professions

161

BIOL 155:156	Foundations of Biology RECOMMENDED. (A full sequence of science may be substituted.)	6-8 hours
	Typing proficiency of 50 wpm for 10 minutes	0-5 hours
	TOTAL	21-28 hours

PRE-OCCUPATIONAL THERAPY

Advisor: Alice Williams

INDS 154	Woodworking	4 hours
INDS 155	Creative Crafts	2 hours
ART 235	Ceramics I	3 hours
BIOL 105:106	Anatomy and Physiology	6 hours
BIOL 125	Microbiology	3 hours
CHEM 111:112	Survey of Chemistry	6 hours
CHEM 113:114	Survey of Chemistry Lab	2 hours
	(a full sequence of physics or math may be substituted for chemistry; e.g., PHYS 211:212 or MATH 114 and 115)	
PHYS 124	Introduction to Psychology	3 hours
PSYC 126	Developmental Psychology I	2 hours
SOCI 125	Introduction to Sociology	3 hours
	TOTAL	34 hours

PRE-PHYSICAL THERAPY

Advisor: Alice Williams

PHYS 107	Introduction to Physics	3 hours
BIOL 105:106	Anatomy and Physiology	6 hours
	(BIOL 155:156 Found. of Biology 8 hrs. may be substituted)	
BIOL 125	Microbiology	3 hours
CHEM 111:112	Survey of Chemistry	6 hours
CHEM 113:114	Survey of Chemistry Lab.	2 hours
PSYC 124	Introduction to Psychology	3 hours
PSYC 126	Developmental Psychology I	2 hours
	TOTAL	25 hours

PRE-RADIOLOGY TECHNOLOGY*

Advisor: Henry Kuhlman

PHYS 107	Introduction to Physics	3 hours
BIOL 105:106	Anatomy and Physiology	6 hours

Medical Science

162

CHEM 111:112	Survey of Chemistry	6 hours
CHEM 113:114	Survey of Chemistry Lab.	2 hours
MATH 104	Intermediate Algebra	3 hours
PSYC 124	Introduction to Psychology	3 hours
	OR SOCI 125 Intro. to Sociology	
	TOTAL	23 hours

PRE-RESPIRATORY THERAPY*

Advisor: Ron Carter

PHYS 107	Introduction to Physics	3 hours
BIOL 105:106	Anatomy and Physiology	6 hours
	(BIOL 155:156 Found. of Biology may be substituted)	
BIOL 125	Microbiology	3 hours
CHEM 111:112	Survey of Chemistry	6 hours
CHEM 113:114	Survey of Chemistry Lab.	2 hours
MATH 104	Intermediate Algebra	3 hours
PSYC 124	Introduction to Psychology	3 hours
	(SOCI 125 Intro. to Sociology may be substituted)	
	TOTAL	26 hours

* Admission to professional programs in Radiology Technology and Respiratory Therapy require 32 semester hours of prerequisites. If the student chose this option, he would not receive an A.S. degree from SC.

MEDICAL SCIENCE

Southern College will confer a Bachelor of Science Degree in Medical Science upon students not already in possession of a bachelor's degree who satisfy the following two conditions:

1. Complete 93 semester hours in an accredited undergraduate college program of which at least the last 30 were taken in residence at Southern College and at least 12 of which are at the upper division level.
2. Provide certification from an accredited professional school of dentistry, medicine, or optometry that the first year of the respective professional program has been successfully completed and that the applicant is eligible to continue.

Request for the conferral of this degree should be made to the Director of Admissions and Records.

MEDICAL TECHNOLOGY

Advisor: Henry Kuhlman

163

This program, leading to a bachelor of science degree with a major in medical technology, consists of three years of prescribed study at Southern College and a 12- to 13-month senior year in a hospital-based medical technology program accredited by the Committee on Allied Health Education and Accreditation (CAHEA) of the American Medical Association. Hospital programs affiliated with Southern College include Erlanger Memorial Hospital, Florida Hospital, Hinsdale Sanitarium and Hospital, and Kettering Medical Center. Internship in other CAHEA-accredited programs requires prior college approval.

Acquiring this degree in medical technology qualifies a person to take a number of national certifying examinations, including those offered by the Board of Registry of the American Society of Clinical Pathologists (ASCP) and the National Certifying Agency for Clinical Laboratory Sciences (NAACLS). Certified laboratory professionals work in hospitals, clinics, physicians' offices, public health agencies, private laboratories, pharmaceutical firms, and research institutions.

The curriculum prescribed by Southern College is designed to meet the requirements of the College and of the Committee on Allied Health Education and Accreditation (CAHEA). Affiliated hospitals may have additional requirements. Students should consult the brochures or advisers of the specific hospitals for those requirements.

Occasionally pre-dental students, pre-medical students, and graduating seniors in biology or chemistry may wish to become certified Medical Technologists. This is possible if the student plans his courses to fulfill the requirements of the College and the hospital program.

During the fall semester of the third year, students must apply for admission to an affiliated hospital-based medical technology program. Acceptance of the individual student to the senior year program is determined by the hospital. To be eligible for admission, a student must complete all of the college course requirements prior to beginning the senior year. The over-all grade point average must be acceptable to the college for graduation. Most hospital programs do not accept students with less than a 2.75 cumulative average on a 4.0 system. Although hospital acceptances are granted during the junior year, they are conditional, pending satisfactory completion of the stated admission criteria.

Written information about each of the affiliated hospital-based medical technology programs is available through the college medical technology adviser. The student should be aware that acceptance criteria, pre-clinical course requirements, application procedures, tuition for the senior year, and program formats may vary at each affiliated hospital.

Medical Technology

164

Candidates for the Bachelor of Science degree from Southern College with a major in medical technology must complete the following requirements:

MAJOR 2

MDTC 225. Introduction to Medical Technology **2 hours**

This course is designed to acquaint prospective medical technologists with the profession. The history and standards of medical technology and employment opportunities will be surveyed. Elementary clinical laboratory procedures will be taught and laboratory tours will be conducted.

COGNATES 37

- BIOL 125, 126, 155, 156, 315 15
- BUAD 334 3
- CHEM 151, 152, 311, 313 12
- CPTR 125 3
- MATH 114 4

GENERAL EDUCATION REQUIREMENTS 35

- A. 1. ENGL 101, 102 6
- 2. (See Cognates)
- B. Religion 9
- C. History, Political Science, and Economics 6
- D. Language, Literature and Fine Arts 6
- E. (See Cognates)
- F. Behavioral, Family or Health Sciences 3
- G. Activity Skills 5

Two writing courses are required—one in a cognate area and one in a non-cognate area.

ELECTIVES 16-19

- Recommendations include:
- BIOL 316, 415, 417, 418
 - CHEM 312, 314, 315, 321, 323, 324
 - MATH 215
 - PHYS 211, 212, 213, 214

TOTAL PRE-CLINICAL CREDIT HOURS 91

HOSPITAL CLINICAL (SENIOR) YEAR Variable

Individual affiliated hospital programs should be consulted for their specific courses and credits. Approximately forty credit hours are given in the twelve to fifteen month clinical programs. Courses taught in affiliate programs include:

Introduction to Medical Laboratory Science, Urinalysis, Hematology, Hemostasis, Immunology, Immunochemistry, Clinical Microbiology, Clinical Mycology, Clinical Parasitology, Clinical Biochemistry, Instrumentation, Research.

2+2 MEDICAL TECHNOLOGY PROGRAM

The 2+2 ladder program in medical technology permits an individual possessing an associate degree from an accredited college plus certification as a medical laboratory technician [MLT (ASCP) or CLT (NCA)] to earn a baccalaureate degree in medical technology without duplicating previous work. For this program, students spend their junior year at Southern College completing general education and science requirements. They spend their senior year at Kettering Medical Center in Dayton, Ohio, studying advanced topics in clinical laboratory science.



DIVISION OF NURSING

Chairman: Ellen Gilbert

Deborah Axford, Colleen Barrow, Ruby Birch, Darlene Boyle, Cindy Campbell, Betty Garver, Dorothy Giacomozzi, Ellen Gilbert, Leona Guley, Dorothy Hooper, Shirley Howard, Bonnie Hunt, Catherine Knarr, Marie Krall, Katie Lamb, Caroline McArthur, Jill Morgan, Patricia Rahming, Hazel Rice, Charlene Robertson, Daphne Shah, Jean Springett, Donna Spurlock, Elvie Swinson, Nancy Thiel, Cheryl Thompson, Lois Thompson, Erma Webb, Krista Woodruff, Tina Zimmerman.

PHILOSOPHY

God is the One in whom we live and move and have our being. In the beginning when God created man in His image it was His purpose that man should throughout his life ever more fully reveal the image of his Creator. But sin brought about in man feelings of distrust of his fellow-man and of God, and a great sense of personal insecurity. Sin also weakened his physical powers, lessened his psychosocial capacity, and dimmed his spiritual vision. Man then became subject to various health problems. Those health problems have created a need for intervention from the health-related professions.

Nursing as a health profession is a progressive science and art, utilizing knowledge from many physical and psychosocial disciplines in assisting individuals and groups to solve health problems. While nursing shares with other health care providers the goals of maintaining and promoting optimal health, it is unique in that it provides for the activities of daily living through its nurturing role and coordinates the health care according to observations of behavioral response of the patient/client. Nursing also includes preventive and creative roles in meeting the needs of the whole individual. The nurse can most effectively fill these roles through a consistent relationship with Christ which enables the nurse to assist others to live, move, and have being (Acts 17:28).

As the roles of the nurse have become more complex, the differentiation of responsibilities of nurses has created a need for nursing personnel with different levels of preparation. The implication for nursing education is that it must provide curricula to educate a clearly defined practitioner on each level of practice. To meet this need, students in the articulated baccalaureate program receive an associate of science degree after the second year with the option to halt their education or continue upper division nursing. The person who exits at this level will primarily provide nurturing and coordinating aspects of nursing in a circumscribed setting. This nurse will apply the nursing process in assessing the level of wellness of the patient/client using predetermined criteria and techniques, will plan and implement predetermined interventions, and will function in predetermined leadership roles. These roles will include management of care for groups of patient/clients and direction of auxiliary personnel.

In a variety of settings the baccalaureate graduate will provide preventive, creative, coordinative, and collaborative aspects of nursing. The nurse practicing at this level will act as a change agent utilizing the research orientation to the nursing process which includes the systematic gathering of data, considering alternatives, implementing predetermined and/or creative interventions, evaluating outcomes, and assuming accountability for actions. On completion of the program the graduate will have competence in a variety of practice settings and

beginning expertise in at least one area. The graduate will be equipped to move quickly into beginning leadership roles and will have the theory and practice base in behavioral and physical sciences for graduate study in nursing.

DESCRIPTION OF PROGRAM

The articulated program leads to a baccalaureate degree in nursing with the option to exit at the associate degree level. The holders of an associate degree from a state approved program in nursing may progress into upper division nursing. Licensed diploma graduates will be evaluated on an individual basis.

The curriculum in the lower division leads to an Associate of Science degree in nursing which may be completed in two academic years, plus two summer courses. At this time the student is eligible to write state board examinations to become a registered nurse.

A well-equipped learning center and skills laboratory are provided to assist students in learning experiences. One semester of both lower and upper division is spent on an extension campus.

The curriculum in the upper division allows the student a choice of an area(s) of in-depth study in addition to prescribed courses. All students will be required to participate in validation procedures designed to evaluate and improve the individual student and the program of study.

POLICIES

Students who are admitted to the Division of Nursing are considered adequately mature to realize the importance of accepting personal responsibility for their learning and professional behavior.

The Division of Nursing Student Handbook contains the policies of the division. Each student contracts to abide by the regulations as outlined. The faculty reserves the right to withdraw or revise policies as deemed necessary.

ACCREDITATION

The program in nursing is fully accredited by the Board of Review for Baccalaureate and Higher Degree Programs and Associate of Science Degree Programs of the National League for Nursing. It is accredited by the National League for Nursing to admit registered nurse students to the curriculum. It is recognized by the Board of Regents of the Department of Education of the General Conference of Seventh-day Adventists, and it is approved by the Tennessee Board of Nursing.

BACHELOR OF SCIENCE DEGREE

Major: Thirty-three hours for the Bachelor of Science degree after completion of the Associate of Science degree at SC or the equivalent*

including NRSG 325, 327, 335, 395, 425, 484, 485. Required cognates: RELT 373, CHEM 201, 202, BUAD 344 and three hours upper division Behavioral Science. General education requirements include an additional three hours Area B, three hours Area C or D, three hours Area D, and elective credit to make a total of 128 semester hours.

*Graduates of a state approved associate degree nursing program will be considered to have met the general education requirements for the first two years of the program. If an Area C-1 course was not included in the associate degree program, however, it must be taken in fulfillment of the Bachelor of Science degree general education requirements of "3 hours Area C or D." A maximum of 72 semester hours will be accepted from a junior college.

ASSOCIATE OF SCIENCE DEGREE

Major: Thirty-four hours for the Associate of Science degree including NRSG 105, 116, 117, 215, 216, 217, 218, 223. Required cognates: BIOL 105, 106, 125, PSYC 126, 127, SOCI 125, FDNT 125. General education requirements for Areas A, B, C, E, and F are the same as for the other disciplines of the College. Students are exempt from general education requirements for Areas D and G. A total of 68 semester hours is required for the Associate of Science degree.

LOWER DIVISION ADMISSION AND PROGRESSION REQUIREMENTS

Minimum requirements for admission to the clinical area of the Division of Nursing are listed below. The final decision on acceptance and continuation in nursing is made by the Division of Nursing. Declaration as a nursing major is not the equivalent of acceptance to the Division of Nursing.

1. Acceptance to Southern College.
2. High school grade point average of 2.50* minimum on solids (math, science, English, history, foreign language).
3. A grade of "C" or better in each semester of high school chemistry.
4. Minimum ACT standard score of 17 in English and composite. Students below 12 in math must take or successfully challenge MATH 100 before enrolling in NRSG 116 and/or 117: Basic Nursing II. If math ACT score is below 22, student must take MATH 103 or 104 before graduation.
5. A student who does not meet the high school grade point average or ACT requirements may remove these deficiencies by attending college for one semester during which he takes a minimum of twelve semester hours in required courses leading to nursing, with a current and cumulative grade point average of at least 2.50.*
6. A total of two courses may be repeated, but only one nursing course may be repeated.

7. A student who does not meet the high school chemistry requirement may remove this deficiency by taking CHEM 111 and earning a "C" or better.
8. A grade of at least C (2.00) is required in each nursing course for progression and/or graduation. A grade of at least "C-" is required in each nursing cognate with a minimum cumulative grade point average of at least 2.25* in the cognates for admission and progression in nursing. (Cognate courses are Anatomy and Physiology, Nutrition, Developmental Psychology, Microbiology, and Sociology.)
9. A grade point average of at least 2.25 is required in nursing and in the cognates for graduation.
10. Students with previous college work must have a minimum current and cumulative grade point average of 2.50.*
11. Students whose native language is other than English must achieve at least 90 on the Michigan English Proficiency Test or its equivalent.
12. Students are required to demonstrate satisfactory performance on standardized tests. Remedial work and/or delay in progression in the program will be required if performance level is not achieved.
13. Following application to the Nursing Admissions Committee, transfer students from another major or another college will be evaluated individually and assisted in fitting into the program.
14. The applicant must show evidence of physical, mental, and moral fitness. Further references or information may be required regarding character, attitude, or coping ability in case of a question in these areas.
15. A licensed practical nurse or ex-Army medic may challenge Basic Nursing I (105). Arrangements to challenge must be made with the coordinator of the first year of the program. Challenge involves clinical and theory evaluation.

The following should be sent to the Director of Admissions and Records by March 1 for the fall class and by October 15 for the winter class: (1) application to the College, (2) application to the Division of Nursing, (3) transcripts, (4) ACT scores. The fall class usually fills by the end of May. Class size for each semester is limited by available clinical facilities and teachers. A new class begins each semester. Students who for various reasons are not able to complete a semester or do not progress with their class, cannot be assured placement in their choice of subsequent class.

*On a 4.00 scale

CURRICULUM (First and Second Year)

The Division of Nursing reserves the right to withdraw or revise courses as deemed necessary. All hour values are in semester hours. Completion of these requirements leads to an Associate of Science degree and eligibility to sit for state board examinations.

Number of Hours Required:

Nursing 34	Natural Science 12
Behavioral Science 7	General Education 15

Sample Sequence:

		1st Sem	2nd Sem
First Year			
BIOL 105	Anatomy and Physiology	3	
PSYC 126	Developmental Psychology I	2	
PSYC 127	Developmental Psychology II		2*
FDNT 125	Nutrition	3	
NRSG 105	Basic Nursing I	4	
NRSG 116	Basic Nursing II		5**
NRSG 117	Basic Nursing II		5**
ENGL 101	College Composition	3	
RELT	Religion elective		3
ENGL 102	College Composition		3*
TOTAL		15	18
Summer			
BIOL 105	Anatomy and Physiology	3	
Second Year		1st Sem	2nd Sem
BIOL 125	Microbiology	3	
RELT	Religion		3
NRSG 216	Basic Nursing III	4	
NRSG 217	Basic Nursing III	4	
NRSG 218	Basic Nursing IV		7
SOCI 125	Sociology	3	
	Elective (General Education, Area C)***		3
NRSG 223	Nursing Trends		1
TOTAL		14	14
Summer			
NRSG 215	Basic Nursing III	4	

*Offered on both Collegedale and Orlando campuses.

**Offered only on the Orlando campus.

***If World History not taken in high school, should be HIST 174 or 175.

NRSG 050. Nursing Therial Course (non-credit)**6 hours**

This course is designed to review and consolidate theoretical and clinical components of the first two years of the nursing program. The experiences

focus upon medical-surgical, obstetrical, mental health, and the nursing of children. The student is expected to perform satisfactorily on examinations and in the clinical area following each rotation. Failure to meet the requirements in any rotation results in termination from the nursing program.

NRSG 105. Basic Nursing I: Foundations **4 hours**

Prerequisite: Chemistry (high school or equivalent).

Co-requisites: FDNT 125 Nutrition, BIOL 106 Anatomy and Physiology.

This course is an introduction to the physical, psychosocial, and spiritual aspects of health care. The student develops an understanding of the roles of the nurse, utilizes the nursing process, and acquires selected nursing skills (two hours theory, two hours clinical). (Fall, Spring)

NRSG 116. Basic Nursing II: Medical-Surgical **5 hours**

Prerequisite: BIOL 106 Anatomy and Physiology, FDNT 125 Nutrition, NRSG 105 Basic Nursing I.

Must meet college math requirements.

This course provides students with the theory and practice of nursing in dealing with selected basic needs of adults at different points on the illness-wellness continuum. This includes focusing on the aged, individuals experiencing surgical intervention, and those with selected medical-surgical problems. The nursing process is utilized to promote physical, psychosocial, and spiritual health, intervene in illness, and assist in rehabilitation (two and one-half hours theory, two and one-half hours clinical). (Fall, Spring)

NRSG 117. Basic Nursing II: Parent-Infant **5 hours**

Prerequisite: BIOL 106 Anatomy and Physiology, FDNT 125 Nutrition, NRSG 105 Basic Nursing I.

Must meet college math requirements.

This course provides nursing students with theory and practice in the care of childbearing families. This includes promoting physical, psychosocial, and spiritual health of expectant mothers and their infants before, during, and immediately following delivery, utilizing the nursing process (three hours theory, two hours clinical). (Fall, Spring)

NRSG 215. Basic Nursing III: Parent-Child **4 hours**

Prerequisite: PSYC 126 Developmental Psychology I, NRSG 116 Basic Nursing II.

This course provides nursing students with the theory and practice of family-centered care of children at different points on the illness-wellness continuum (two and three-fourths hours theory, one and one-fourth hours clinical). (Fall, Spring, Summer)

NRSG 216. Basic Nursing III: Medical-Surgical **4 hours**

Prerequisite: NRSG 116 Basic Nursing II, BIOL 105 Anatomy and Physiology.

Prerequisite or co-requisite: PSYC 127 Developmental Psychology II, BIOL 125 Microbiology.

This course provides students with the theory and practice of nursing in

continuing to deal with selected basic needs of adults at different points on the illness-wellness continuum. This includes focusing on nursing process as applied to individuals who are experiencing interferences of the cardiovascular, renal, and endocrine system; promoting physical, psychosocial, and spiritual health; intervening in illness; and assisting in rehabilitation (two hours theory, two hours clinical). (Fall, Spring, Summer)

NRSG 217. Basic Nursing III: Mental-Health 4 hours

Prerequisite: NRSG 116 Basic Nursing II, BIOL 105 Anatomy and Physiology.

Prerequisite or co-requisite: PSYC 127 Developmental Psychology II, BIOL 125 Microbiology.

This course provides students with the opportunity to utilize the nursing process in intervening with clients throughout the life span with emphasis on specific psychosocial needs at different points on the illness-wellness continuum (two and one-half hours theory, one and one-half hours clinical). (Fall, Spring)

NRSG 218. Basic Nursing IV: Medical-Surgical 7 hours

Prerequisite: BIOL 125 Microbiology, NRSG 216 Basic Nursing III, NRSG 217 Basic Nursing III.

This course provides students with the theory and practice of utilizing the nursing process in dealing with complex needs related to psychosocial, physical, and spiritual aspects of individuals who have medical-surgical interferences. The impact of historical events and current trends upon the future of nursing is considered as well as the problems and responsibilities of the registered nurse. The student is introduced to leadership concepts (three hours theory, four hours clinical). (Fall, Spring)

NRSG 223. Nursing Seminar 1 hour

This course is designed to aid the student in validating and consolidating previous learning experiences. The seminar will include intensive review of all areas of nursing. A series of comprehensive examinations will be given at the culmination of the seminar. The student must perform at a pre-specified level on each area of the comprehensive examination. If a student fails to achieve this level, a grade of "I" or incomplete will be given for the course. Removal of this "I" will necessitate the student's successful completion of a full semester, non-credit remedial course which includes clinical and theoretical components from all areas of nursing. Examinations during the remedial course will monitor a student's continued progress in the Division of Nursing.

UPPER DIVISION ADMISSION AND PROGRESSION REQUIREMENTS

Minimum requirements for admission to upper division nursing are listed below. The final decision on acceptance and continuation in nursing is made by the Division of Nursing. Declaration as a nursing major is not the equivalent of acceptance to the Division of Nursing.

1. Acceptance to Southern College.
2. Minimum grade point average of 2.25 for lower division courses in nursing.

3. Minimum cumulative grade point average of 2.25 with no grade below "C-" for lower division cognate courses.
4. Students whose native language is other than English must pass an English proficiency test. If the student fails the English proficiency test, he must take remedial work in written and spoken English and repeat the proficiency test with a passing grade before entering nursing.
5. Students are required to demonstrate satisfactory performance on standardized tests. Remedial work will be required if performance level is not achieved.
6. Following application to the Nursing Admissions Committee, transfer students from another major or another college will be evaluated individually and assisted in fitting into the program.
7. The applicant must show evidence of moral, physical, social, and intellectual maturity. Further references or information may be required regarding character, attitude, or coping ability in case of a question in these areas.
8. Validating Procedures:

All students admitted to upper division must meet the minimal expectations delineated for the completion of lower division. Information regarding minimal expectations is available upon request. Equivalency of prior learning will be assessed by validating examinations. Deficiency in any area will require counseling and remedial measures.

9. Eligibility for Licensure:

Applicants to be considered for admission to junior standing in nursing must either have a current license to practice as a registered nurse in the U.S. or, if a new graduate or foreign student, must be eligible to sit for State Boards. A student must pass state board examinations before registering for senior clinical nursing courses.

10. Experience:

- A. Student who has graduated within five years prior to application.
 1. Satisfactory clinical performance and character references are required from basic nursing program.
 2. Satisfactory work performance and character references are required from employer(s). Students who have graduated within the previous twelve months will be exempt from the work requirement.
- B. Student who has graduated more than five years prior to application.
 1. Minimum of one year satisfactory work experience in nursing for each five years since graduation and one year must be in the last five years.

2. Satisfactory work performance and character references are required from employer(s).

11. Nursing Credit:

A. Associate Degree Graduate.

Graduates of a state approved associate degree nursing program will have met nursing requirements for the first two years of the program.

B. Diploma Graduate.

Graduates of a state approved diploma program will be evaluated on an individual basis. A maximum of thirty-four semester hours of nursing credit may be given which is equal to the requirements of the first two years of nursing at Southern College.

12. General Education and Cognates:

A. Associate Degree.

Graduates of a state approved associate degree program will be considered to have met general education requirements for the first two years of the program, including history and mathematics requirements. (If an Area C-1 course was not included in the associate degree program, it must be taken in fulfillment of the Bachelor of Science degree general education requirements of "3 hours Area C or D.")

B. Diploma Graduate.

1. Credit is acceptable for courses comparable to those required at Southern College if received from an accredited senior or junior college or by examination according to the policy stated in the bulletin.
2. All cognates for the first two years must be completed before entering junior nursing courses. General education requirements may be taken concurrently.

13. Progression:

- A. No cognate or nursing course may be repeated more than one time. No more than a total of two courses may be repeated.
- B. A grade of at least C (2.00) is required in each nursing course for progression and/or graduation. A grade of at least "C-" is required in each nursing cognate with a minimum cumulative grade point average of at least 2.25* in the cognates for admission and progression and graduation in nursing. (Cognate courses are CHEM 201 and 202, Selected Concepts in Biochemistry; PSYC 344, Personnel Administration; RELT 373, Christian Ethics.)
- C. Students are required to demonstrate satisfactory performance on standardized tests. Remedial work will be required if performance level is not achieved.

*On 4.00 scale.

CURRICULUM (Third and Fourth Years)

The Division of Nursing reserves the right to withdraw or revise courses as deemed necessary. All hour values are in semester hours.

Number of hours required:

Nursing 33	Natural Sciences 6
Behavioral Science 6	General Education 15

Sample Sequence

		1st Sem	2nd Sem
Third Year			
NRSG 395	Nursing Research	4	
NRSG 327	Nursing Assessment	4	
CHEM 201	Selected Concepts in Biochemistry	3	
CHEM 202	Selected Concepts in Biochemistry		3
PSYC 344	Personnel Administration	3	
RELT 373	Christian Ethics	3	
NRSG 335	Community Health		6
NRSG 325	Advanced Physiology		4
TOTAL		17	13
Fourth Year		1st Sem	2nd Sem
NRSG 425	Advanced Nursing Concepts	5***	
NRSG 484	Nursing Elective I	5**	
NRSG 485	Nursing Elective II	5**	
	Elective (General Education, Area C or D)—An area C course is required unless an Area C course was included in the associate degree.		3
	Elective (General Education, Area D)		3
	Religion		3
	Elective (General)		3
PSYC or SOCI	(Elective — General Education, Area F-1, Upper Division Behavioral Science)		3
TOTAL		15	15

NRSG 325. Advanced and Pathologic Principles of Human Physiology 4 hours

This course assists the student to integrate principles of physiology with clinical practice, to correlate physical manifestations with pathologic interferences, and to move toward more independent predictive care of patient/client (four hours theory). (Fall, Spring)

**Offered only on Orlando campus.
***Offered on Collegedale campus summer of 1982.

NRSG 327. Nursing Assessment**4 hours**

Prerequisite: Junior standing in nursing.

This course provides opportunities for creativity in the utilization of the expanding role of the clinical practitioner. Enables the student to develop advanced skills in utilizing the nursing process through history taking, physical examination, health planning, and counseling of the patient/client (two hours theory, two hours clinical). (Fall, Spring)

NRSG 335. Community Health**6 hours**

A course which includes concepts and practice of the nursing process with emphasis on moving individuals, families, and communities toward their optimal level of functioning on the illness-wellness continuum. This course combines community and mental health concepts (three hours theory, three hours clinical). (Fall, Spring)

NRSG 395. Nursing Research (W)**4 hours**

Prerequisites: Junior standing in nursing.

Scientific methods of inquiry are applied to nursing problems including framework for practice, principles of data treatment, and analysis. The student plans a mini-research project. The course is designed to give the student the concepts, methods, and tools for intelligent participation in and application of research and evaluation. In addition to the research component, this course orients the student to the goals and philosophy of professional practice (four hours theory). (Fall, Spring — Collegedale; Summer — Orlando)

NRSG 425. Advanced Nursing Concepts**5 hours**

Prerequisites: Senior standing in nursing; PSYC 344 Personnel Administration.

This course teaches the process of conceptualization. It is the theory base for the Nursing Elective and explores in depth numerous concepts including the principles of administration, management and education. Current issues facing the professional baccalaureate nurse are explored. Each student is required to develop and present concepts in order to gain experience in applying and integrating his knowledge and demonstrate his understanding. Students are expected and encouraged to make clinical and scholastic application of course content in their nursing practice (four hours theory, one hour clinical). (Fall, Spring, Summer)

NRSG 484. Nursing Elective**(Primary Care with Research Component) (W) 5 hours**

Prerequisite: Senior standing in nursing and completion of PSYC 344, Personnel Administration.

This course provides opportunity for the student to select an area of specialized interest in which to develop a broader scope of clinical competence. The scientific method of inquiry will be utilized in conducting a research project (one hour theory, four hours clinical). (Fall, Spring)

NRSG 485. Nursing Elective (Management Component)**5 hours**

Prerequisite: NRSG 484 Nursing Elective (Research Component).

This course provides opportunity for the student to use independent judg-

ment in developing clinical competence and management skills. This goal will be accomplished primarily through the leadership modes of research, team-leading, management and administrative experiences in selected clinical areas (one hour theory, four hours clinical). (Fall, Spring)

NRSG 295/495. Directed Study **1-3 hours**

Prerequisite: Approval of division chairman.
Individual study in an area of choice shall be worked out with the department prior to registration. Either upper or lower division credit may be earned. The area of directed study will appear on the transcript. No more than six hours directed study may be applied toward a degree.

GENERAL EDUCATION OFFERED BY THE DIVISION OF NURSING

NRSG 204. Family Health (F-3) **3 hours†**

A multi-disciplinary course which provides an introduction to principles of family health with emphasis on disease prevention and recognition of health problems. Instruction is provided in handling emergency situations, basic home nursing skills, and applying natural preventive and remedial measures. (two hours theory, one hour clinical). (No credit given for nursing majors). (Spring)

(F-3), (W) See pages 19-22.

†Laboratory course

DIVISION OF RELIGION

Chairman: Douglas Bennett

Jerry Gladson, Lorenzo Grant, Norman Gulley,
Helmut Ott, Ronald Springett, Edwin Zackrison

The Division of Religion offers two majors to provide for the diversified interests and ambitions of students. A Bachelor of Arts degree in theology serves candidates for the ministry of the Seventh-day Adventist Church, providing the undergraduate academic preparation for the Theological Seminary of Andrews University, Berrien Springs, Michigan. Also, the division offers a Bachelor of Arts degree in Religion for students who may be preparing to serve as secondary teachers, Bible instructors, chaplain's assistants, and for those who may be preparing for various other professions, such as medicine, dentistry, and law. All majors must arrange their programs with a teacher in the Division of Religion and have that program approved by the division. Each program will be individualized for the student and approval will be granted on the following considerations: first, evidence of a program having both balance and diversity; second, the needs of each student professionally and individually must be considered; and third, all general education and major requirements must be fulfilled.

Beyond these considerations, the division is also endeavoring to help both the major and non-major students develop a personal religious life in commitment and service as well as to enhance their appreciation and understanding of God as Creator and Redeemer. It also seeks to enlarge the student's appreciation and comprehension of the Bible as the infallible rule of faith and practice for the Christian. **Only those who complete the theology requirement will be recommended by the division to the prospective employer.**

Religion Major: Religion majors who wish to be admitted to the Teacher Education Program must meet the requirements for admission found under the Education Section, page 81, and Methods of Teaching Bible, page 164. Personal criteria for evaluating those who apply for teacher education may be obtained from the Division of Religion.

Thirty hours for the Bachelor of Arts degree in the categories designated Bible and Religion including RELB 125, 345, 346, 425 or 426 (Studies in Revelation recommended), 435, 436; RELT 238, 373, 484, 485. PSYC 377 Fundamentals of Counseling required for those with secondary education emphasis.



Theology Major: A student who wishes to be admitted to the theology program in preparation for the ministry must file a formal application to the Division of Religion during the first semester of his sophomore year. **All sophomore ministerial students must take a battery of vocational tests before being permitted to continue upper division work. The time for the test will be announced by the department.** Upper class transfer students must file an application during the first semester in residence. The applicant must have an overall cumulative 2.25 grade point, demonstrate competence in English communication skills, and show evidence of moral, physical, social, and intellectual fitness, emotional maturity, and professional commitment.

Religion and Theology majors are required to attend professional chapels in order to receive a recommendation from the division. Only those who receive approval of the Ministerial Recommendations Committee will be admitted into the professional courses: Homiletics, Pastoral Ministry I and II, and Evangelistic Methods. If at any time after being admitted to the ministerial program a student provides evidence of failing to live up to the stated criteria listed, he may be dropped from the major. The criteria for admission to the ministerial training program may be obtained from the Division of Religion.

During their study at SC, the Theology and Religion majors taking secondary certification are expected to participate in the various field education programs provided by the Division of Religion. These experiences are designed to enhance the student's professional development. Participation is necessary for one to receive the recommendation of the Division.

The four year curriculum in field education is as follows:

Freshman	Campus Ministries
Sophomore	New Testament Witnessing
Junior	Church Ministries
Senior	Bible Studies and Preaching

The candidate for the ministry will take thirty hours in Bible and Religion for the Bachelor of Arts degree including RELB 125, 345, 346, 425 or 426, 435, 436; RELT 238, 484, 485, and three hours of electives. He will also take the following Practical Theology minor:

Minor—Practical Theology:

SPCH 317 Persuasion	3 hours
RELP 321:322 Homiletics	4 hours
RELP 351, 352 Pastoral Ministry I and II	3,3 hours
RELP 455 Evangelistic Methods	2 hours
RELT 373 Christian Ethics	3 hours

Religion

182

General Education Cognates: (For theology students only.)

MUPF 200 Ministry of Music	3 hours
EDUC 133 Principles and Organization of Education .	3 hours
RELL 271:272; 311:312 Foreign Language	14 hours
SPCH 135 Introduction to Public Speaking	3 hours
History, Political and Economic Systems and Behavioral Science	20 hours
Twelve hours of history, including HIST 174, 175 Survey of Civilization; 364, 365 History of the Christian Church; three hours Political and Economic Systems; and the following five hours of Behavioral Science, SOCI 223 Marriage and the Family and SOCW 375 Introduction to Family Intervention are required.	

Minor—Religion: Includes at least one course from each of the following three areas and additional courses from RELB and RELT to make a total of 18 semester hours:

RELB 345, 346

RELB 435, 436

RELB 425, 426, RELT 225, 324

Those who plan to teach must include RELT 155 and 238 to qualify for denominational certification. (For those preparing to teach, RELB 345, RELB 435, and RELT 235 must be taken. RELT 236 is strongly recommended.)

Before the end of the sophomore year, the student must apply to the Division of Education and Human Sciences for admission to the Teacher Education Program. Before the end of the junior year, the student must apply to the Division of Education and Human Sciences for admission to the professional semester.

Biblical Language Minor: Eighteen hours from RELL 271:272; 311:312; 413:414; or RELL 471:472.

Summer Field Programs: The major program is the evangelism field school conducted under the auspices of the division and offering up to five hours of credit.

Additional programs for the individual student and student teams may be available by approval of the Division of Religion to requests coming from the conferences of the Southern Union Conference. Satisfactory prior arrangements must be made with the Division of Religion.

Details concerning the field school and the associated programs and application forms for the same are available through the Division of Religion.

One may add, if he chooses, a second endorsement in Bible after qualifying with an initial teaching endorsement in another area by taking 12 hours from four of the seven courses listed below.

RELB 125	Life and Teachings of Jesus	3 hours
RELB 335, 336	New Testament Epistles	3,3 hours
RELB 425	Studies in Daniel	3 hours
RELB 426	Studies in Revelation	3 hours
RELB 445, 446	Old Testament Studies	3,3 hours

Note: One only of the following four courses may count toward the general education requirement for religion: RELT 317, 318, 325, or 385.

BIBLICAL STUDIES

RELB 125. Life and Teachings of Jesus I (B-1) 3 hours

A study of the life, ministry, and teachings of Jesus with special emphasis upon His teachings as they apply to the personal, social, and religious problems of the individual. (Fall, Spring)

RELB 175. Acts of the Apostles (B-1) 3 hours

A study of the history of the church during apostolic times, including an introduction to the characters, issues and events that shaped the earliest Christian communities and the theological development of the gospel by the early church. (Fall)

RELB 345. Old Testament Studies (B-1) 3 hours

An introduction to the Pentateuch, Historical books, and the Apocrypha. Attention will be given to the basic structure, theme, theological content, and historical setting of the literature surveyed. Some consideration will also be given to various contemporary approaches to the Old Testament and to the nature of the Old Testament text.

RELB 346. Old Testament Studies (B-1) 3 hours

An introduction to the Prophets, Wisdom Literature, and Psalms. Attention will be given to the structure, theme, theological content, and historical setting of the literature surveyed.

RELB 425. Studies in Daniel (B-1) 3 hours

Recommended: HIST 174, 175.

A comprehensive study of the book of Daniel and its application for our day, including a survey of its backgrounds and historical setting. Special attention is given to the defense of the book against modern critics. (Fall, Spring)

RELB 426. Studies in Revelation (B-1) 3 hours

Recommended: HIST 174, 175.

A study of the prophecies and symbolisms of Revelation with their historical fulfillments and their intimate relationships to the prophecies of the book of Daniel. Some consideration will be given to a study of the history of interpretation of the Apocalypse. (Fall, Spring, Summer)

RELB 435. New Testament Epistles (B-1) **3 hours**
 An exegetical study of the following epistles in the order of their composition: 1 and 2 Thessalonians, 1 and 2 Corinthians, Galatians, and James. Includes a background survey of the book of Acts. (Fall, Summer).

RELB 436. New Testament Epistles (B-1) **3 hours**
 An exegetical study of Romans, the Prison, Pastoral, and General epistles, (excluding James) and Hebrews. (Spring, Summer)

RELIGION

RELT 155. Christian Beliefs (B-2) **3 hours**
 An investigation of the Biblical teachings held by the Seventh-day Adventist Church. This course will involve a study of the major teachings with a view to enhancing the student's understanding and ability to provide Biblical support for his faith. (Fall, Spring, Summer)

RELT 225. Studies in Last-Day Events (B-2) **3 hours**
 Prerequisite: One college Biblical Studies or Religion course.
 The purpose of this course is to alert the student to a wealth of prophetic material which describes the final events of earth and to help the student better understand the character of God and man's role in the closing events. (Fall, Spring, Summer)

RELT 235. Righteousness by Faith (B-2) **3 hours**
 Prerequisite: One college Biblical Studies or Religion course.
 An examination of the theme of righteousness by faith from a biblical perspective. Attention will be given to the Catholic and Reformation viewpoints, especially as they relate to the ongoing discussion within Seventh-day Adventism. (Fall, Spring)

RELT 236. Biblical Interpretation (B-2) **3 hours**
 An introduction to the theory and practice of biblical exegesis and hermeneutics. Designed to enrich anyone wishing to learn how to read and understand the Scriptures, the course will focus on the nature of the biblical text, available resources for interpretation, and the proper procedures involved in adequate exegesis. Some consideration will also be given to the interpretation of the writings of Ellen G. White.

RELT 238. Adventist Heritage (B-2) **3 hours**
 A study of the worldwide advent emphasis of the early nineteenth century and the subsequent development of the Seventh-day Adventist Church and faith, and of the contributory role played by the spiritual gift of prophecy in its development. (Fall, Spring, Summer)

RELT 295. Directed Study **1-3 hours**
 This course is reserved for off campus projects. Arrangements for such projects must be made no later than second semester registration. No credit will be given for any project that was not approved in advance by the Division of Religion. (Fall, Spring, Summer)

RELT 317. Issues in Physical Science and Religion (B-2) 3 hours
(See Division of Mathematical Sciences PHYS 317.)

RELT 318. Issues in Physical Science and Religion II 3 hours
(See Division of Mathematical Sciences PHYS 318.)

RELT 325. Issues in Natural Science and Religion (B-2) 3 hours
(See Division of Natural Science listings, BIOL 325.)

RELT 326. Sanctuary and Atonement (B-2), (W) 3 hours
The study of the underlying principles of the plan of salvation as revealed in the sanctuary services of the Old Testament. (Spring)

RELT 339. Selected Studies in Religion (B-2) 3 hours
This course is designed to provide an exposure to a wide range of religious studies dealing with vital issues, theological areas, and biblical studies. The subject will change each semester and it may be repeated once for credit. Open to all students. (Spring)

RELT 367. Philosophy of Religion (B-2) 3 hours
A study of the basic concepts of religion from a philosophical viewpoint. Attention will be given to such major questions as religious experience, reason and faith, theism and atheism, religious language, and the problem of evil. (Spring, 1982)

RELT 368. World Religions (B-2) 3 hours
Theological study of the major Christian and non-Christian religions of the world, including a survey of the history and the distinctive characteristics of each. (Fall, Spring)

RELT 373. Christian Ethics (B-2) 3 hours
An introductory course in the study of ethical methodology. This course surveys a number of approaches to discovering and implementing an ethical norm. These norms are applied to current personal and social issues relevant to the student. (Fall, Spring)

RELT 385. Religious Psychology (B-2) 3 hours
See Division of Education and Human Science listings, PSYC 385.

RELT 484. Christian Theology I (B-2), (W) 3 hours
An introduction to the study of systematic theology dealing with methodology, theological language and a theological study of Christian anthropology, hamartiology, soteriology, and ecclesiology. Meet denominational certification needs for Bible Doctrines. (Fall, Spring)

RELT 485. Christian Theology II (B-2), (W) 3 hours
A theological study of the doctrines of God, Revelation and Inspiration, Christology, Pneumatology, and Eschatology. Meet denominational certification needs for Bible Doctrines. (Fall, Spring)

RELT 495. Directed Study (B-2)

1-3 hours

This course is limited to Religion and Theology majors and must be approved by the chairman of the Division of Religion. Occasionally the course may be conducted as a seminar and published in the schedule of classes. (Fall, Spring, Summer)

PRACTICAL THEOLOGY

RELP 127. Student Missions Orientation

1-2 hours

A course designed to help students better understand cultural differences, interpersonal relationships, health care for others and themselves, social and monetary problems, personal qualifications for service and relevant denominational policies for overseas service. The course is required by the General Conference of Seventh-day Adventists for those under appointment as student missionaries.

RELP 321. Homiletics

2 hours

Prerequisites: SPCH 135 and 317.

An introduction to sermon development and delivery. Attention will be given to the sermon structure and the preparation of biographical sermons. Opportunity will be given to preach and analyze sermons. One lecture and two laboratories each week. *To be taken in the junior year. (Fall)*

RELP 322. Homiletics

2 hours

Prerequisites: SPCH 135 and 317 and RELP 321.

Expository, textual, and topical sermon types will be considered. One to two field trips will be required. One class lecture and two laboratories each week. Opportunity will be provided to develop some proficiency in preaching. *To be taken in the junior year. (Spring)*

RELP 351. Pastoral Ministry I

3 hours

This course is concerned with helping the student form a biblical philosophy of pastoral ministry and personal evangelism. An introduction to methods such as the giving of Bible studies is included. Emphasis will be placed on the implementation of a philosophy of ministry in the pastoral setting. Field work is required. (Fall)

RELP 352. Pastoral Ministry II

3 hours

A study of the pastor's work as it relates to the local congregation, the community, and the conference. Attention will be given to the full range of pastoral duties as they are grounded in careful theological analysis of the minister's role. Some field experience with the area churches will be required. (Spring)

RELP 455. Evangelistic Methods

2 hours

A study of the principles employed in conducting public evangelistic meetings. The student will learn how to plan, develop, and conduct an evangelistic series. This course is available also in connection with the Summer Field School of Evangelism. (Fall, Summer)

BIBLICAL LANGUAGES

RELL 271:272. Elements of New Testament Greek (D-1) 4,4 hours

A study of the grammar and syntax of the vernacular koine Greek of New Testament times, with readings in the epistles of John. Laboratory work required. (Fall, Spring)

RELL 311:312. Intermediate New Testament Greek (D-1) 3,3 hours

A course in advanced studies, grammar, and syntax of koine Greek with translation of readings from the Gospel of John, the Synoptics, and the Pauline Epistles. (Fall, Spring)

RELL 413:414. Greek Exegesis 2,2 hours

Prerequisite: RELL 311:312.

A course in exegesis of selected passages from the Synoptic Gospels and the Pauline and General Epistles, based on a grammatical and syntactical analysis of the original text with an introduction to textual criticism. (On demand)

RELL 471:472. Biblical Hebrew (D-1) 3,3 hours

A foundation course in the grammar and syntax of classical Hebrew, with an emphasis on reading skills. Selections from Genesis, Deuteronomy, and Jonah will be studied. Laboratory work required. (Fall, Spring 1983-84)

EDUCATION

EDUC 438. Methods of Teaching Bible 2 hours

Prerequisite: Admission to Teacher Education.

Attention is given to methods and materials of instruction, planning, testing and evaluating student performances, the survey and evaluation of textbooks. Four lectures each week of the first half of the second semester during the senior year. (Spring)

(B-1), (B-2), (D-1), (W) See pages 19-22.

SELF-SUPPORTING WORK

OCED 204. Principles of Self-Supporting Work 2 hours

The objectives of this course are to set forth principles from the Spirit of Prophecy; review the history and successes and failures of self-supporting institutions; study plans and methods of operation and set before the student the needs and call for active involvement as lay members to help finish the work of the church. (Fall)

OCED 206. Christian Salesmanship 2 hours

To teach the psychology, techniques and methods of selling Christian literature.

COLLEGE WITHIN A COLLEGE

The Student Association administers a program of mini-courses called College Within a College. The courses are two contact hours in length and cover a variety of subjects. One semester hour of credit will be awarded upon completion of twenty such mini-courses. A maximum of four semester hours of elective credit will be awarded through this program. Consult the Student Association College Within a College Bulletin concerning courses, times, and costs.

NON-DEGREE PRE-PROFESSIONAL PROGRAMS

Pre-professional and pre-technical curricula are offered in a wide variety of fields. Below are listed the curricula most frequently chosen. If other pre-professional programs are desired, faculty advisors are prepared to assist the student in working out a satisfactory sequence of courses needed to meet the admission requirements of the chosen professional school.

ANESTHESIA

Advisor: Chris Perkins

Registered nurses who are comfortable working in critical care areas may be interested in becoming registered nurse anesthetists. Graduation from an approved program of nursing and a valid nursing license is required. Additional requirements may be determined by consulting the Bulletin for the Loma Linda University School of Allied Health Professions and/or the Nursing Department.

DENTISTRY

Advisor: Ron Carter

Because of competition for admission to schools of Dentistry, most applicants have completed a four-year college degree rather than the required minimum of two years of college.

Successful applicants to Dental School must make satisfactory scores on the Dental Admissions Test in addition to meeting G.P.A. and personal qualifications. For a reasonable chance of admission to Loma Linda, it is recommended that the student maintain a minimum G.P.A. of 3.0 in both science and non-science courses. Satisfactory performance on the Dental Dexterity Test is also required.

The following courses must be included to meet the minimum requirements for admissions to the Loma Linda University School of Dentistry:

BIOL 155, 156	8 hours
BUAD 344	3 hours
CHEM 151:152, 311:312, 313:314	16 hours
ENGL 101:102	6 hours
FDNT 125	3 hours
INDS 174 (recommended)	4 hours
MATH 114	4 hours
PHYS 211:212, 213:214	8 hours

Pre-professional Curricula

190

PSYC 124	3 hours
Physical Education	1 hour
Religion	9 hours
Electives	8 hours

LAW

Advisor: William Wohlers

The student interested in the study of law as a profession should become acquainted with the entrance requirements of various law schools. A free copy of the brochure entitled "Law School Admission Test" may be secured by writing to the Educational Testing Service, Box 944, Princeton, New Jersey 08540. This will make possible the planning of a pre-professional program which will qualify the student for admission to several schools. Although admission is granted by some schools to gifted students after three years of college, it is wise to plan a course of study which will lead to a bachelor's degree with emphases in the following fields: business, history, English, and behavioral science. Certain courses recommended by all institutions include American history, freshman composition, principles of economics, American government, creative writing, principles of accounting, English history, business law, speech, and mathematics.

The student is advised to obtain the booklet "Law Schools and Bar Admission Requirements" published by the Section of Legal Education and Admissions to the Bar, American Bar Association, 1155 East 60th Street, Chicago, Illinois 60637, which provides information concerning the desired pre-professional backgrounds.

MEDICINE

Advisor: Ron Carter

Medical colleges, as a rule, require the completion of academic requirements for a baccalaureate degree. Along with the completion of stated admission requirements, a broad college program of liberal education is preferred to give balance to professional studies and later service.

Applicants for admission to the Loma Linda University School of Medicine should maintain a grade point average of at least 3.50 in both science and non-science courses. The following courses must be included in the applicant's academic program. Additional classes in biology and chemistry are recommended.

BIOL 155, 156, 313	11 hours
CHEM 151:152, 311:312, 313:314	16 hours
ENGL 101:102	6 hours

Pre-professional Curricula

191

MATH 114, 115	8 hours
PHYS 211:212, 213:214	8 hours
Religion	12 hours

OPTOMETRY

Advisor: Ray Hefferlin

The admission requirements to colleges of optometry vary, so the student should follow the catalog from the school of his or her choice. However, all place emphasis on biology, chemistry, mathematics and physics. Additional courses in the areas of fine arts, language, literature, and the social sciences are usually necessary.

A minimum of two years of preoptometric study is required. However, additional study increases the prospects of acceptance into professional training. This is illustrated by the following data for the 1978 entering class for all Schools of Optometry:

Semester Hours Completed	% of Entering Class
60-90	12
91-120	21
121+	67

Following is a list of pre-optometry courses required by most schools:

BIOL 125 and 155:156	11 hours
CHEM 151:152	8 hours
ENGL 101:102	6 hours
MATH 114, 115, 215	12 hours
PHYS 211:212, 213:214	8 hours
PSYC 124	3 hours

Direct individual inquiries are welcomed by the American Optometric Association, Division of Education and Manpower, 7000 Chippewa Street, St. Louis, Missouri 63119.

OSTEOPATHIC MEDICINE

Advisor: Ron Carter

A viable alternative to allopathic medical schools, which grant the M.D. degree, are the osteopathic medical schools whose graduates receive the D.O. degree.

Many Seventh-day Adventists have attended the Kansas City School of Osteopathic Medicine, one of twelve osteopathic medical colleges in this country.

Courses for admission are basically the same as those for Loma Linda except that Calculus is not required.

Pre-professional Curricula

192

For a reasonable chance of acceptance, a minimum grade point average of 3.0 should be maintained in both science and non-science subjects.

PHARMACY

Advisor: Ron Carter

The bachelor's degree program in pharmacy normally requires 5 years, the first two years of which may be taken at SC.

Admission requirements to colleges of pharmacy are somewhat variable so the student should consult the catalog of the school of his choice for specific course recommendations.

Minimum admission requirements to the University of Tennessee College of Pharmacy at Memphis are:

ACCT 121	3 hours
BIOL 155:156	8 hours
CHEM 151:152, 311:312, 313:314	16 hours
ENGL 101:102	6 hours
PHYS 211, 213	4 hours

Additional requirements include:

Literature or Foreign Language	4 hours
Social Sciences:	
Psychology	2 hours
Other	4 hours
Speech	2 hours
Electives	12 hours

A minimum grade of "C" must be obtained for each required pre-pharmacy class. A higher grade point average will, of course, increase the chance of acceptance into pharmacy school. In addition, a satisfactory score must be achieved on the National Pharmacy College Admission Test.

PUBLIC HEALTH SCIENCE

Advisor: Dorothy Giacomozzi

Today there is an increasing demand for programs that promote health and that prevent disease as well as treat it. Two major factors influencing this demand are (a) an effort to slow down or decrease the rising costs of medical care and (b) emphasis on improving the quality of life. The undergraduate program in public health science at Loma Linda University provides an opportunity to emphasize the prevention of illness and the promotion of health. The first two years of the program are offered at SC after which the student transfers to Loma Linda to complete the work

to receive the bachelor's degree in public health science. The following courses should be included in the pre-public health science curriculum to qualify for admission to LLU. Students not having had high school physics must enroll in college physical science.

ENGL 101:102	6 hours
Humanities (include at least two areas: speech (highly recommended), fine arts, foreign language, HMNT 205, literature, philosophy)	9 hours
BIOL 105, 106 or 155, 156, and 125	9-11 hours
CHEM 111:112, 113, 114	8 hours
MATH 104	3 hours
PSYC 124, SOCI 125, ECON 225	9 hours
Religion	9 hours
Electives sufficient to make a total of 64 hours chosen in consultation with advisor.	

The Allied Health Professions Admission Test is required.

VETERINARY MEDICINE

Advisor: Edgar Grundset

Competition for admission to colleges of veterinary medicine is very keen. Consequently, most successful applicants have completed a degree rather than the required minimum of two years of college.

The applicant must make a satisfactory score on the Veterinary Aptitude Test in addition to meeting grade point average and personal qualifications for admission. Professional training entails another four years of school beyond college.

Minimum admission requirements to the University of Tennessee College of Veterinary Medicine in Knoxville are:

BIOL 125, 155:156	11 hours
CHEM 151:152, 311:312, 313:314, 323	20 hours
ENGL 101:102	6 hours
MATH 114, 115	9 hours
PHYS 211:212, 213:214	8 hours

Additional requirements include:

Humanities	8 hours
Social Sciences	8 hours
Speech	2 hours
Animal Science (not offered at SC)	9 hours

STUDENT FINANCIAL INFORMATION

1982-83

FINANCIAL BUDGET AND CAMPUS EMPLOYMENT

Southern College strives to give every student the opportunity to obtain a Christian education. The administrators of SC and Student Finance Office personnel will make every effort to assist students in meeting their financial obligations in order to reach this goal.

The Director of Student Finance will assist in financial planning by helping students to obtain employment on campus and financial aid in the form of grants, loans, and scholarships. Before registration each student must submit a payment agreement to the Student Finance Office showing how he will finance his college expenses.

Information on student costs and means of paying those costs is given below to assist the student in financial planning.

STUDENT COSTS

Tuition:

Tuition charges range from \$135-\$153 per hour. Students taking one to twelve hours will be charged at the rate of \$153 per hour. Students taking over twelve hours will be charged as follows:

Total Hours Per Semester	Tuition Charge Per Semester	Approximate Average Hourly Rate Per Semester
12	\$1840	\$153
13	1920	148
14	2000	143
15	2080	139
16	2160	135
17	2313	136
18	2466	137

No reduction in tuition charges will be made for program changes made after four weeks following registration.

FAMILY REBATE

When two students from the same immediate family are in attendance at SC each taking eight semester hours or more and having the same

financial sponsor, a tuition rebate of 5 percent will be applied to each statement. A 10 percent rebate will be applied when three or more students have the same financial sponsor and are taking eight or more semester hours each.

MUSIC

Private music lessons are offered for academic credit by the music faculty of Southern College and qualified teaching instructors (contract teachers) from the Chattanooga area. Private lessons without academic credit are offered through the prep program of the Music Division to elementary and secondary students in the area. Teaching in the prep program is done by contract teachers and Southern College music students.

Enrollment for all music instruction must be for a full semester whether or not credit is desired. A minimum of twelve one-half hour lessons will be provided. No refund of tuition or lesson fees will be made after four weeks following registration.

Music majors who are registered for or have successfully completed MUCT 111:112 and/or meet the requirements for MUPF 179 are exempt from the music lesson fee.

Private lesson fees with credit	Per Semester
Each credit hour of lessons (tuition additional)	\$75.00
Private lesson fees non-credit (Non-college students only)	
Each half-hour series of lessons (minimum 12 lessons)	
Study with contract teacher	125.00
Study with student teacher	75.00

Prep program students must register at the Music Division office, pay in full at the Cashier's Office, and bring the receipt to the Music Division office prior to scheduling lessons.

SPECIAL FEES AND CHARGES

The following special fees and charges are assessed separately inasmuch as they may not apply to all students nor do they occur regularly:

Application for admission (not refundable)	\$15.00
Application for admission — late (not refundable)	20.00
Automobile parking fee (per semester) — dormitory	20.00
Automobile parking fee (per semester) — village	10.00
Change of program	7.00
Credit by examination (per hour)	20.00
Examinations:	
Challenge or waiver	30.00
CLEP	25.00

Student Financial Information

196

Rescheduling mid-term or final	35.00
Graduation in absentia	30.00
Incomplete	5.00
Insufficient funds check	7.00
Late Registration	25.00
Late return of organizational uniform	15.00
(The full cost will be charged if irreparably damaged or not returned.)	
Nursing education fees (per semester)*:	
Associate degree	110.00
Baccalaureate degree	60.00
Re-registration fee (must be cash)	25.00
Transcript	2.00

*Declared nursing majors enrolled in a nursing class.

STATEMENT CHARGES

The following items may be charged to the student's account:

- a. Books and required school supplies (maximum \$150 each semester). When a student reaches the maximum during the semester, all further books and supplies must be paid for in cash.
- b. Nursing uniforms costing approximately \$50 but not including capes or other non-required garments.
- c. Private music instruction. Enrollment for all music instruction must be made through the Admissions Office for a full semester whether or not credit is desired. One semester hour of private music instruction consists of twelve one-half hour lessons. Refunds will be granted only when the instructor is not available for lessons.
- d. Student Health Insurance.

HOUSING

Residence Hall Costs

Dormitory accommodations for single students cost \$880 for the eight-month school year and are charged on a semester basis in September and January. Room charges are based on two students occupying one room and include health and infirmary care.

A student may, upon application to the residence hall dean, be allowed to room alone at an additional cost of \$60 per semester if sufficient rooms are available.

No refunds are made for vacation periods or absences from the campus. If a student drops classwork, a prorated portion of the semester charge beginning with the date of nonoccupancy of the room will be refunded.

Room Deposits

A \$75 room deposit, paid at time of application, is required of each dormitory student enrolling at SC. It should be paid initially by July 1 in order to insure a specific room reservation. The deposit will then be held by the College for the entire period including summers during which the student lives in a residence hall while attending the College and will insure a room for the student when he returns each fall.

If a student gives notice before July 1 that he will not be attending, his room deposit will be refunded. If notice of nonattendance is given after July 1 and at least four weeks before registration, \$40 of the deposit will be refunded. The room deposit will not be refunded when less than three weeks notice of nonattendance is given.

A student who registers at the College and remains in residence a minimum of thirty days will receive credit on his final statement for his room deposit if his room was left clean and undamaged. Damage or cleaning charges may also be charged to the student's account at the end of each academic year if necessary.

Married Student Housing Costs

College-owned apartments and mobile homes may be rented by married students taking a minimum of eight hours each semester. The apartments range in size from two to six rooms and are either furnished or unfurnished. Rents range from \$80 to \$195 per month. Trailer space is available at \$65 per month in the College Mobile Home Park for married students with their own trailer. Moving and parking charges are the responsibility of the owner. Storage facilities are available for an additional \$8 per month.

Rent charges are based on the date of issue and return of keys and proper clearance with the Housing Manager (Business Manager's Office). Married students renting either an apartment or a trailer from the College will be required to pay a housing deposit of \$125 of which \$50 is due with the housing application and the remaining \$75 at the time the apartment or trailer is rented. This deposit will be refunded after approval by the Housing Manager if the apartment or trailer is left clean and undamaged.

FOOD SERVICE

The cafeteria plan of boarding allows the student the privilege of choosing food and paying for what is selected. Board charges for students vary greatly. Students are encouraged to eat healthfully by avoiding between-meal snacks and by eating at the cafeteria or the Campus Kitchen where balanced meals are provided. A student getting a nutritionally adequate diet by eating all meals at the cafeteria should expect to

Student Financial Information

198

pay approximately \$6.50 per day. Dormitory students will be charged a flat rate of \$75 per month.

ADVANCE PAYMENT

Regular: Advance payments of \$925 for students residing in any college housing and \$825 for students living in the community are required before registration. When a married couple enrolls for a combined total of seventeen semester hours or less of classwork, they will be charged only one advance payment. The advance payment is credited back to the student's account, one-half in November and one-half in March.

Foreign Students: Foreign students must remit to the College an additional advance payment of \$3,000, to be held in reserve until the student terminates studies at the College. In addition, they must submit a written statement verifying financial strength to cover college expenses. An agreement to make payment in accordance with the financial policies of the College is also necessary before an I-20 immigration form will be issued.

Nursing Students: Students accepted to the clinical nursing program are required to send an advance payment of \$50 by July 1 to insure a reservation in the nursing program. This additional advance payment must be paid before registration and will be credited to the student's account, one-half in November and one-half in March. If a student applies for the nursing program but does not attend the College, the \$50 nursing advance payment will be forfeited.

ADVENTIST COLLEGES ABROAD FINANCIAL POLICY

Students wishing to study abroad under the Adventist Colleges Abroad program must pay \$100 with their admission application and sign the payment agreement in the Student Finance Office stating that the required ACA charges for the year will be paid to Southern College before departure from the states.

ESTIMATED STUDENT BUDGET

Average Costs for Students in Residence Halls:	One Semester	Both Semesters
Tuition (based on fifteen hours per semester)	\$2080.00	\$4160.00
Books, supplies, and miscellaneous	150.00	300.00
Rent	440.00	880.00
Food (\$125 per month average)	575.00	1160.00
TOTAL	\$3245.00*	\$6490.00*

*Personal expenses not included.

METHOD OF PAYMENT

Community students are to pay on a cash basis. Residence hall students may choose one of the three methods of payment below.

Plan I. Cash in Advance. When the total estimated charges for tuition of twelve hours or more and room and board for a semester are paid in cash at registration, a discount of three percent is allowed on this cash payment. Amounts paid as a result of student loans, grants, or scholarships are excluded from the amount on which the discount is allowed. Students choosing to pay cash in advance must bring with them at registration time the full amount required by the plan for the semester, less any advance payments or credits. They will also need to bring sufficient funds for purchase of books and personal items.

Plan II. Contract with Southern College. Students desiring to pay educational expenses in installments on a monthly basis may choose to follow this plan. The method of billing will be:

Tuition for one semester
Room rent for semester (\$440)
Cafeteria, actual charge for the month
Bookstore, actual charge for the month
Other, actual charge for the month
Less labor credit for the month
Less cash or other credits for the month

Monthly statements will be issued about the fifth day of each calendar month. Cafeteria charges will be charged through the last day of each month. Accounts are due and payable upon receipt of statement according to the following schedule:

		Past Due Date
September statement	ONE-THIRD of total charges less credits upon receipt of statement	October 31
October statement	ONE-HALF of charges less credits upon receipt of statement	November 30
November statement	TOTAL BALANCE of statement is due in full BEFORE semester examination permits will be issued.	

Students with unpaid accounts on the fifth of the following month will be subject to cancellation of registration until proper financial arrangements are made.

The above schedule of payment must be maintained since the college budget is based upon 100 percent collection of student charges.

A student cannot take semester examinations, register for a new semester, or participate as a senior in commencement exercises until the account is current according to the preceding regulations. No transcript

Student Financial Information

200

will be issued for a student whose account is not paid in full or who is delinquent in payment of student loans. **No exceptions will be made.**

The second semester statements and payment schedule will follow the same procedure as the first semester with the exception that the student's advance payment will be applied on the March statement.

		Past Due Date
January statement	ONE-THIRD of charges less credits upon receipt of statement	February 26
February statement	ONE-HALF of charges less credits due upon receipt of statement	March 26
March statement	TOTAL BALANCE remaining of statement is due in full BEFORE semester examination permits will be issued.	

PLAN III. Contract with National College Payment Plan or Tuition Plan, Inc. Students and parents desiring to pay educational expenses in monthly installments and to have the advantages of cash payment with the College may select a low-cost deferred payment program available through either the National College Payment Plan or Tuition Plan, Inc.

The National College Payment Plan provides the student with a direct source of Government-subsidized Guaranteed Student Loans. The parent's monthly payments to the Plan provide the funds to meet term charges in excess of those paid by the student loans and accumulate funds which may be used to repay the student loans in full when they are due. The student's education is protected with life and disability insurance on the parents.

For information about the Plan, write to:

National College Payment Plan
53 Beacon Street
Boston, MA 02108

After considering the discount allowed by the College, the following benefits are realized at little, if any, cost to those entering under either plan:

1. A three percent cash discount is allowed each student entering under Plan III if the College receives payment for the student at its regular disbursement time each semester.
2. The payments may be reduced to a minimum by being spread over 12 months or, in the case of a four-year contract, up to 96 months.
3. The contract may be cancelled at any time without penalty.
4. The account may be insured. In the event of death or total disability of the person responsible for payments, the balance of an insured contract is paid in full.

At the time of figuring the contracts, students may choose to include in their contract sufficient cash to cover books, fees, school supplies, etc.

Any items not included in the contract plan chosen must be paid for in cash at the time they are received or arranged.

The plan is open to employed parents and bona fide sponsors, and all arrangements should be made several weeks before registration in order to be assured of the three percent discount. Sufficient cash must also be brought to cover items not included in the contract.

Those desiring further information covering these deferred payment plans may contact the Director of Student Finance.

Bank Financing

Southern College has arranged with a local bank to make short-term loans available to students. In the event students are unable to clear their accounts in full, they will need to obtain a loan before they are allowed to take final exams.

REFUND POLICY

A student may drop all classes within one week after registration with a tuition charge not to exceed \$90. After the first week a student dropping all classes will have the tuition refunded on a prorated basis for up to eight weeks. After eight weeks there is NO refund for withdrawal from all classes. Tuition adjustments will be made for changes in program during the week following registration without charge and during the second through fourth weeks with the change of program fee. No refund of tuition charges will be made for program changes (other than complete withdrawals) made after four weeks following registration. Refunds will be calculated according to the official date of completed drop voucher and the return of the student's ID card to the Student Finance Office.

CREDIT REFUND POLICY

Credit balances are refundable, on request, 30 days after the monthly statement is received for the last month the student was in school in order to be certain that all charges have been processed. For example, if a student drops out of school in December, a full credit refund would not be made until after the January statement is prepared during the first week of February. When the credit balance is large, a portion may be refunded earlier upon request to the Student Finance Office.

If the student has received financial aid during the current semester, any credit balance over \$100 will be credited to the aid fund, with priority given to loans. Amounts less than \$100 will be refunded to the person responsible for the student's account. Cash refunds will not be made to the student without authorization from the parent or financial sponsor.

Student Financial Information

202

COLLECTION POLICY

Students completing or terminating their studies with the College are requested to make arrangements for payment of unpaid accounts. The school has a program to aid the student where funds can be borrowed and paid directly to a bank. If these or other arrangements are not made within 120 days after a student leaves Southern College, the unpaid account balance will be turned over to a collection agency.

INTEREST

An interest charge of one percent per month (12% A.P.R.) is added to any account balance which is 90 days or more past due.

HEALTH INSURANCE

Southern College requires that students be covered by health insurance. Students who are already covered with a similar insurance plan may during registration request at Health Service to be excluded from the school policy. Such students *will need to supply, at that time, written evidence from their parent's employer or local insurance agent which contains the company name and policy number under which they are covered, otherwise, coverage must be purchased through the college health insurance plan.*

BANKRUPTCY

Recognizing that the discharge of a debt through bankruptcy proceedings prohibits a creditor from subsequently pursuing the collection of the debt, the college, upon notification of such discharge of a student's current school or loan account(s), complies with this legal prohibition. At the same time such discharge in bankruptcy does not require further performance of service by the creditor and, therefore, a student who has had debts to the college discharged in this manner may not receive a transcript of his/her academic work at the college until the debt is paid.

TRANSCRIPTS, DIPLOMAS AND TEST SCORES

It is the policy of the college to withhold transcripts, diplomas, test scores, and other records if a student has an unpaid account at the school, or any unpaid account for which the college has co-signed. To expedite the release of these documents, the student should send a money order or certified check to cover the balance of the account when requesting the documents. Under provisions of federal loan program Southern College withholds any records when payments for these loans become past due.

NON-LIABILITY FOR PERSONAL EFFECTS

When determining what to bring on campus, please remember that the college is not responsible for the personal effects of any student even though such effects may be required by the college for student use, or required by the college to be stored in a designated location. College-carried insurance does not insure the personal effects of any individual. The college recommends that students consider carrying insurance to cover such losses.

WORKER'S COMPENSATION INSURANCE

As provided by the laws of the State of Tennessee, the college carries worker's compensation insurance to protect all employees in case of work-connected accidents.

BANKING AND CASH WITHDRAWALS

The Accounting Office operates a deposit banking service for the convenience of the student. Financial sponsors should provide students with sufficient funds through the banking service to cover the cost of personal items of an incidental nature and travel expenses off campus including vacation periods. Withdrawals may be made by the student in person only as long as there is a credit balance. These deposit accounts are entirely separate from the student's regular school expense account. Withdrawals from regular expense accounts are discouraged and permitted only under special arrangement with the Director of Student Finance and with the permission of the financial sponsor.

Each student should bring approximately \$137.50 for books and miscellaneous supplies at the beginning of each semester if he desires to pay cash for these items.

STUDENT LABOR REGULATIONS

Work opportunities for students are available in departments and industries operated by the College and local private businesses. These employing agencies must serve their customers daily, necessitating a uniform working force. Student employees are responsible for meeting all work appointments, including during examination weeks, and for satisfactory job performance. Work superintendents reserve the right to dismiss students if their service is unsatisfactory. Should a student find it necessary to be absent from work, he must make arrangements with his work superintendent and Student Health Service if he is ill.

Residence hall students are given preference in the assignment of work. Student Finance Office personnel will assist students in finding jobs.

Student Financial Information

204

When a student accepts employment, he is expected to retain it for the entire school year except in cases where changes are recommended by the school nurse or approved by the College. Should a student receive opportunities for more favorable employment during a school term, the transfer must be made through the Student Finance Office with proper notice of up to two (2) weeks given the employing department. If a student's financial plan requires him to work, he must not drop his work schedule without making proper arrangements with the Director of Student Finance. To do so could result in suspension from class attendance until proper arrangements are made.

The student pay rate is not less than student rates set by the government wage-hour law. It may be higher if a student possesses special skills or training.

Students may also work off campus with permission from the Dean of Students. Permission will not be granted for off-campus employment that could be detrimental to a student's health or character development.

LABOR FOR FOREIGN STUDENTS

Foreign students on non-immigrant visas are required by law to secure permission before accepting any off-campus employment. Foreign students with student visas are allowed to work on campus up to twenty hours a week. Wives may work only if they have student visas of their own or have immigrant visas.

STUDENT TITHING

SC encourages the payment of tithe and church expense by its student workers. In order to facilitate this practice, arrangements may be made by the student (except for those employed at the McKee Baking Company and in the Federal Work-Study Program) to have ten percent of his school earnings charged to his account as tithe and two percent for church expense. These funds are then transferred by the College to the treasurer of the Collegedale Seventh-day Adventist Church. Tithe on earnings at the McKee Baking Company and from the Federal Work-Study Program may be withdrawn by the student at the Student Finance Office and paid in cash.

FINANCIAL AID

Southern College provides financial aid for students in the form of loans, grants, scholarships, and employment. No applicant for financial aid will be denied assistance on the basis of sex, race, color, national origin, or ethnic group. The Student Finance office follows established procedures and practices which will assure equitable and consistent treatment of all applicants.

Student Financial Information

205

Students are urged to contact the Director of Student Finance, P.O. Box 370, Collegedale, Tennessee 37315, for information about and applications for financial aid. Applications received by April 1 will be given preference. Applications received after April 1 will be processed as long as funds are available.

General Requirements. Financial aid awards are made for one academic year to students who are accepted for admission, plan to take at least twelve semester hours of classwork each semester, and demonstrate financial need. Class load exceptions must be approved by the Student Finance Office. Recipients of government aid must hold U.S. citizenship or a permanent visa. Students desiring aid must reapply each year.

Financial Need Requirements. The financial aid program is administered in conjunction with the nationally-established policy and philosophy which is that the parents are the primary and responsible source for helping a student to meet his educational costs. Financial aid is available to help fill the gap between the student's own resources (parental contribution, summer earnings, and savings) and the total cost of attending Southern College. The amount of parental contribution is based on the family's net income, number of dependents, allowable expenses, indebtedness, and assets. The Family Financial Need Analysis from the American College Testing Program or College Scholarship Service is used in determining a student's eligibility for financial aid.

Exceptions to the financial need requirements are private scholarships awarded on the basis of academic achievement.

Academic Requirements. According to the 1976 Higher Education Amendments, all recipients of federal financial aid must maintain satisfactory academic progress in order to continue to receive financial aid. Satisfactory academic progress is defined as maintaining a cumulative and resident grade point average above the dismissal levels stated on page 33. If a student does not maintain satisfactory academic progress or fails to attend classes, prepare and submit required classwork, or take required examinations, his financial aid will be suspended.

This policy is generally applied to financial aid from private sources as well as federal programs.

If a student whose financial aid has been suspended for any of the above reasons feels that unusual and unavoidable circumstances led to this suspension, he may appeal the suspension to the Loan and Scholarship Committee.

FINANCIAL AID APPLICATION PROCEDURES

The following applications must be completed annually for the federal and state financial aid programs:

Student Financial Information

206

1. The Family Financial Statement (FFS) of the American College Testing Program or the Financial Aid Form (FAF) of the College Scholarship Service.
2. The American College Testing Program (ACT) Student Data Form or the Financial Aid Form (FAF) must be sent to Southern College.
3. Federally Insured Loan or State Guaranteed Student Loan application as required by lender.

Forms are available from the Southern College Student Finance Office.

GUARANTEED PARENTAL LOAN PROGRAM

The Guaranteed Parental Loan Program (GPLP) was established to enable parents to borrow money to assist in the educational expenses of their dependent sons and daughters. Eligible borrowers also include graduate and professional students, and independent undergraduate students.

United Student Aid Funds, a private, not-for-profit corporation, guarantees the GPLP loans. USA Funds is not a lender; GPLP loans are made by regular institutions such as banks, credit unions, savings and loan associations, etc.

The maximum loan for parents of dependent undergraduates is \$3,000 per year per student, for an aggregate total of \$15,000 for each dependent undergraduate.

The interest rate is 14% per year. The borrower is also charged a guarantee fee of 1% per annum based on the declining principle balance over five years, or the life of the loan, whichever is less.

For parent borrowers, the repayment period begins on the day the loan is disbursed, and the first installment payment is due to the lender within 60 days of that date.

Repayment Example

	Amount of loan	Based on	Monthly Payments*
1st year	\$3,000	5 yrs.	\$ 69.80
2nd year	\$3,000	7 yrs.	\$104.00
3rd year	\$3,000	10 yrs.	\$125.00
4th year	\$3,000	10 yrs.	\$165.41

* Monthly payment includes cumulative principle and interest.

Contact the Student Finance Office of Southern College for additional information and applications for the Guaranteed Parental Loan Program.

VETERANS

207

Southern College is approved for the training of veterans as an accredited training institution. Those who qualify for educational benefits should contact the nearest Veterans Administration office.

Veterans or other eligible persons are required to attend classes in order to be eligible for educational benefits. Southern College is required to report promptly to the V.A. the last day of attendance when an eligible person withdraws or stops attending classes regularly.

A recipient may not receive benefits for any course that does not fulfill requirements for his stated degree and major. Audited courses, non-credit courses (except for a required remedial course), and correspondence work cannot be certified.

Educational benefits will be discontinued when the recipient accumulates twelve semester hours of failing and "D" grades in the major, minor, and courses required for educational certification or when he is subject to academic dismissal. (See page 33.) Benefits may be resumed only after the individual has obtained V.A. counseling and approval.

GRANTS, LOANS, AND SCHOLARSHIPS

The following grants, loans, and scholarships are available to students meeting the above requirements or having exceptional academic achievement. Details concerning amounts and qualifications for recipients of these funds can be obtained from the Student Finance Office.

A. E. Deyo Memorial Scholarships for senior nursing students.

Alumni Loan Fund for juniors and seniors.

Alvin Christensen Memorial Loan Fund for junior or senior biology or natural science majors.

Ann Wallack Memorial Loan Fund for senior nursing students.

Anton Julius Swenson Loan Fund.

Burdick Scholarship Fund.

Business Administration Scholarship Fund.

Cartinhour Foundation Scholarship and Loan Fund.

Conger Memorial Fund for education majors or minors.

D. W. Hunter Scholarship and Loan Fund for theology students.

Dewitt and Josie Bowen Scholarship Fund for graduating seniors from Bass Memorial Academy.

Doctor Ambrose L. Suhrie Scholarship for elementary teachers.

Dorothy and Harold Moody Scholarship Award for junior or senior history majors.

Student Financial Information

208

Educational Fund.

Edythe Stephenson Cothren Vocal Music Scholarship Fund for junior/senior voice majors or minors.

E. T. Watrous Memorial Loan Fund.

George B. and Olivia Dean Scholarship Fund for education majors.

George White Scholarship Fund.

Grants-in-Aid to Nursing Students.

Guaranteed Student Loans.

Irad C. Levering Loan Fund for elementary and secondary education majors.

Joseph Schermerhorn Memorial Loan Fund for students planning to serve as doctors, nurses, ministers, or teachers.

Life Care Scholarship Fund for students majoring in long-term health care administration.

Linda Beardsley Stevens Memorial Loan Fund for senior nursing students.

Lois H. Luce Memorial Loan Fund for nursing students.

Louise Hurt Memorial Scholarship Fund.

Ludington Memorial Fund.

National Direct Student Loans.

National Merit Scholarships.

1969 Alumni Loan Fund for juniors and seniors.

Nursing Scholarship Program.

O. D. and Anna Ruth McKee Scholarship Fund.

Otto Christensen Fund for potential Bible instructors or theology majors.

Parent Loans for undergraduate students.

Pell Grants.

Reile-McAlexander Memorial Loan Fund preferably for nursing students.

Sanford and Martha Ulmer Scholarship Fund.

Secondary School Scholarships for freshmen who graduated within the upper ten percent of their senior class from academies or secondary schools in the Southern Union and who are enrolled for a minimum of twelve semester hours.

Sudduth Memorial Fund for potential teachers.

Summer Camp Scholarships for students participating in conference-sponsored summer camp programs.

Supplemental Educational Opportunity Grants.

Teacher Education Scholarships.

Student Financial Information

Tennessee Tuition Grants.

Theresa Brickman Scholarship Fund for office administration majors.

W. B. Calkins Student of the Year Awards for junior and senior nursing students.

William Iles Scholarship Fund.

209

PRINCIPALS AND PRESIDENTS, 1892-1982

Principals of the Southern Industrial School

George C. Colcord	1892-1896
W. T. Bland	1896-1898
C. W. Irwin	1898-1900
N. W. Lawrence	1900-1901

Principals of Southern Training School

J. E. Tenney	1901-1908
M. B. Van Kirk	1908-1912
C. L. Stone	1912-1914
L. H. Wood	1914-1915
A. N. Atteberry	1915-1916

Presidents of Southern Junior College

Leo Thiel	1916-1918
L. H. Wood	1918-1922
Leo Thiel	1922-1925
H. H. Hamilton	1925 - Jan. 1927
M. E. Cady	Jan. 1927 - May 1927
H. J. Klooster	1927-1937
J. C. Thompson	1937-1942
D. E. Rebok	1942-1943
K. A. Wright	1943-1945

Presidents of Southern Missionary College

K. A. Wright	1945-1955
T. W. Walters	1955-1958
C. N. Rees	1958-1967
Wilbert Schneider	1967-1971
Frank A. Knittel	1971-1982

Presidents of Southern College of Seventh-day Adventists

Frank A. Knittel	1982-
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SC TRUSTEES

A. C. McClure, *Chairman*

H. F. Roll, *Vice Chairman*

J. H. Whitehead, *Secretary*

E. A. Anderson

Mardian Blair

Helen Crawford Burks

B. T. Byrd

T. K. Campbell

H. J. Carubba

A. L. Cason

C. E. Dudley

J. A. Edgecombe

Clayton Farwell

M. D. Gordon

D. K. Griffith

R. B. Hairston

William Iles

O. R. Johnson

J. C. McElroy

Ellsworth McKee

Harold Moody

Gary Patterson

C. B. Rock

Ward Sumpter

Robert Trimble

L. C. Waller

Don W. Welch

Ben Wygal

HONORARY TRUSTEES

O. D. McKee

B. F. Summerour

EXECUTIVE BOARD

A. C. McClure, *Chairman*

D. K. Griffith

Ellsworth McKee

Gary Patterson

H. F. Roll

Ward Sumpter

J. H. Whitehead

ADVISORY COMMITTEE

Lawrence Hanson

Frank Knittel

Richard Reiner

Everett Schlisner

COLLEGE ADMINISTRATION

PRESIDENT

Frank Knittel, Ph.D. (1967) President

ACADEMIC SERVICES

Lawrence E. Hanson, Ph.D. (1966) Academic Dean

Admissions

Ronald Barrow, Ph.D. (1979) Director of Admissions

Hilda Fern Remley, B.A. (1975) Admissions Advisor

Records

Mary Elam, M.A. (1965) Director of Records

Library

Charles Davis, M.S.L.S. (1968) . Director of Libraries and Archivist

Peggy Bennett, M.S. (1971) Assistant Librarian

Jerome Clark, Ph.D. (1959) Curator, Lincoln Room

Loranne Grace, M.S. (1970) Assistant Librarian

Marianne Wooley, M.S. in L.S. (1966) Assistant Librarian
(Orlando Campus)

Instructional Media

Frank DiMemmo, M.S. (1980) Director of Instructional Media

BUSINESS SERVICES

Richard Reiner, B.S. (1977) Business Manager

Support Services

Kenneth Spears, M.B.A. (1963) Associate Business Manager

Murlita Grindley (1976) Director Purchasing, Mail and Duplicating

Financial and Accounting Services

Robert Merchant, M.B.A., C.P.A. (1961) Treasurer

Louesa Peters, B.A. (1964) . Chief Accountant, Assistant Treasurer

Laurel Wells (1964) Director of Student Finance

Randall White, B.S. (1978) Director of Student Accounts

Commercial Auxiliaries

Fred Ashmore, B.S. (1980) Manager of Village Market
Iwan Lyzanchuk (1973) Manager of Village Market Bakery
Noble Vining, B.A. (1966) Manager of The College Press
Judith Moots Manager of Campus Shop

Computer Services

John Beckett, B.A. (1974) Director of Computer Services

Service Auxiliaries

Francis Costerisan (1962) Director of Physical Plant
Earl Evans, B.S. (1977) Director of Food Service
C. R. Lacey (1970) Director of Grounds
William McKinney (1974) Head of Motor Pool
Clarence "Skip" McCandless (1979) Director of Custodial

Word Processing

Evonne Richards, M.A. (1977) Director of Word Processing

WSMC

Don Self, M.A. (1971) General Manager of WSMC
Olson Perry, M.A. (1977) Program Director of WSMC

STUDENT SERVICES

Everett Schlisner, M.A. (1974) Dean of Student Affairs

Residence Halls

Reed Christman, (1979) Associate Dean of Men
Ted Evans, B.A. (1974) Dean of Men
Virginia Gustin, B.S. (1977) Associate Dean of Women
Joyce Harrelson, B.S. (1981) Assistant Dean, Orlando Campus
Clifford Myers, Sr. (1968) Director of Security
Ron Qualley, B.S. (1980) Associate Dean of Men
Millie Runyan (1975) Dean of Women
Dorothy Somers, B.A. (1972) Associate Dean of Women
Norma Swinson (1981) Dean, Orlando Campus

Counseling

K. R. Davis, M.A. (1970) Director of Counseling and Testing
Rhea Rolfe, M.A. (1972) Counselor

Health Service

Eleanor Hanson, R.N. (1966) Director of Health Service
Waldemar Kutzner, M.D. (1974) College Physician

College Administration

214

DEVELOPMENT AND PUBLIC RELATIONS

- Jack McClarty, Ed.D. (1972, 1980) Director of Development
- Wayne Thurber, Ph.D. (1981) College Promotions Officer

COLLEGE PASTORS

- Gordon Bietz, Ph.D. (1981) Pastor
- James Herman, B.A. (1976) College Chaplain
- G. H. (Gerry) Morgan, M.A. (1980) Youth Pastor
- Rolland Ruf, B.A. (1969) Associate College Pastor

FACULTY DIRECTORY

EMERITI

Dorothy Evans Ackerman, M.Music, *Associate Professor Emeritus of Music*

B.A., Atlantic Union College; M.Mus., University of Chattanooga.

Theresa Rose Brickman, M.Ed., *Associate Professor Emeritus of Secretarial Science*

B.A., Union College; M.Ed., University of Oklahoma.

John Christensen, Ph.D., *Professor Emeritus of Chemistry*

B.A., Union College; M.A., University of Nebraska; Ph.D., Michigan State University.

Olivia Brickman Dean, M.Ed., *Associate Professor Emeritus of Education*

B.A., Union College; M.Ed., University of Oklahoma.

Charles Fleming, Jr., M.B.A., *Business Manager Emeritus*

B.A., Emmanuel Missionary College; M.B.A., Northwestern University.

K. M. Kennedy, Ed.D., *Professor Emeritus of Education*

B.A., Valparaiso University; M.Ed., University of Chattanooga; Ed.D., University of Tennessee.

H. H. Kuhlman, Ph.D., *Professor Emeritus of Biology*

B.A., Emmanuel Missionary College; M.A., George Peabody College for Teachers; Ph.D., University of Tennessee.

Evlyn Lindberg, M.A., *Associate Professor Emeritus of English*

B.A., Willamette University; M.A., Texas Christian University.

Drew Turlington, M.S., *Associate Professor Emeritus of Industrial Education*

B.S., Southern Missionary College; M.S., University of Tennessee.

INSTRUCTIONAL FACULTY

Frances Andrews, M.A., *Associate Professor of Journalism and English*

B.A., Southern Missionary College; M.A., George Peabody College for Teachers. (1975)

Dates in parentheses indicate the beginning year of employment at Southern College.

Faculty Directory

216

J. Bruce Ashton, D.M.A., *Professor of Music*
B.Mus., Capital University; M.Mus., American Conservatory of
Music, D.M.A., University of Cincinnati. (1968)

Wiley Austin, M.S., *Associate Professor of Chemistry*
B.S., Pacific Union College; M.S., Stanford University. (1977)

Deborah Axford, B.S., *Instructor of Nursing*
B.S., Loma Linda University. (1981)

Colleen Barrow, B.S., *Instructor of Nursing*
B.S., Columbia Union College. (1976)

Ronald Barrow, Ph.D., *Director of Admissions*
B.A., Columbia Union College; Ph.D.

John Q. Baucom, M.S., *Assistant Professor of Behavioral Science*
B.S., University of Tennessee at Chattanooga; M.A., Azusa Pacific
College. (1981)

Douglas Bennett, Ph.D., *Professor of Religion*
B.A., Southern Missionary College; M.A., Andrews University;
B.D., Andrews University; Ph.D., Bowling Green State University.
(1961)

Peggy Bennett, M.S., *Assistant Professor of Library Science*
B.S., Southern Missionary College; M.S., Florida State University.
(1971)

Ruby Birch, M.S.N., *Assistant Professor of Nursing*
B.S., Madison College; B.A., Union College; M.S., Vanderbilt Uni-
versity. (1975)

Darlene Boyle, B.S., *Instructor of Nursing*
B.S., Southern Missionary College. (1979)

Phillip Brooks, M.B.A., *Instructor of Business Administration*
B.S., Southern Missionary College; M.B.A., Middle Tennessee State
University. (1979)

M. D. Campbell, Ph.D., *Professor of Education*
B.A., Union College; Ph.D., Purdue University. (1968)

Ronald Carter, Ph.D., *Associate Professor of Biology*
B.S., Columbia Union College; M.Div., Andrews University; Ph.D.,
Loma Linda University. (1980)

Ann Clark, M.A.T., *Associate Professor of English*
B.A., Southern Missionary College; M.A.T., University of Chat-
tanooga. (1965)

- Jerome Clark, Ph.D., Curator, Lincoln Room, McKee Library**
 B.Th., Atlantic Union College; M.Ed., University of Maryland; M.A., SDA Theological Seminary; Ph.D., University of Southern California. (1959)
- Joyce Cotham, M.B.Ed., Assistant Professor of Office Administration**
 B.S., Southern Missionary College; M.B.Ed., Middle Tennessee State University. (1971)
- Thelma Cushman, M.A., Associate Professor of Home Economics**
 B.A., Pacific Union College; M.A., Pacific Union College; M.A., Michigan State University. (1957)
- W. Bradford Davis, M.A., Assistant Professor of Psychology**
 B.F.A., Los Angeles Art Center College of Design; M.A., Hollins College. (1980)
- Charles Davis, M.S.L.S., Librarian and Archivist**
 B.A., Union College; M.A., Kansas State University; M.S.L.S., University of Southern California. (1968)
- Kenneth R. Davis, M.A., Assistant Professor of Religion**
 B.A., Emmanuel Missionary College; M.A., Andrews University; M.A., Boston University. (1970)
- Don Dick, Ph.D., Professor of Communication**
 B.A., Union College; M.A., University of Nebraska; Ph.D., Michigan State University. (1968)
- Roy Dingle, A.S., Instructor of Baking**
 A.S., Southern Missionary College. (1974)
- John Durichek, M.A., Associate Professor of Industrial Education**
 B.S., Southern Missionary College; M.S., George Peabody College for Teachers. (1969)
- Earl Evans, B.S., Director of Food Services**
 (1977)
- Clyde Garey, M.A., Assistant Professor of Communication**
 B.S., Southern Missionary College; M.A., Madison State University. (1981)
- Robert Garren, M.F.A., Professor of Art**
 B.S., Atlantic Union College; M.F.A., Rochester Institute of Technology. (1968)
- Betty Garver, M.S.N., Assistant Professor of Nursing**
 B.S., Union College; M.S., University of Tennessee. (1977)
- Philip G. Garver, M.S., Assistant Professor of Physical Education**
 B.S., Southern Missionary College; M.S., Eastern Michigan University. (1976)

Faculty Directory

218

****Dorothy Giacomozzi, M.S., Associate Professor of Nursing**
B.S., Union College; M.S., University of Colorado. (1979)

Ellen Gilbert, M.S., Associate Professor of Nursing
B.S., Loma Linda University; M.S., State College of Arkansas. (1967)

Orlo Gilbert, M.Mus. Ed., Professor of Music
B.M.E., La Sierra College; M.Mus.Ed., Madison State Teachers College. (1967)

Jerry Gladson, Ph.D., Professor of Religion
B.A., Southern Missionary College; M.A., Vanderbilt University; Ph.D., Vanderbilt University. (1972)

Judith Glass, M.Mus., Associate Professor of Music
B.Mus., University of Texas at Austin; M.Mus., University of Texas at Austin. (1975)

Loranne Grace, M.L.S., Assistant Professor of Library Science
B.S., Walla Walla College; M.L.S., University of Washington. (1970)

Lorenzo Grant, D.Min., Professor of Religion
B.A., Columbia Union College; M.A., Howard University; D.Min., Howard University. (1976)

Floyd Greenleaf, Ph.D., Professor of History
B.A., Southern Missionary College; M.A., George Peabody College for Teachers; Ph.D., University of Tennessee. (1966)

Edgar O. Grundset, M.A., Associate Professor of Biology
B.A., Emmanuel Missionary College; M.A., Walla Walla College. (1957)

Leona Gulley, M.H.Sc., Assistant Professor of Nursing
B.S., Columbia Union College; M.A., Philippine Union College Seminary, M.H.Sc., Philippine Union College. (1978)

Norman Gulley, Ph.D., Professor of Religion
Diploma in Theology, Newbold College; B.S., Southern Missionary College; M.A., Andrews University; B.D., Andrews University; Ph.D., Edinburgh University. (1978)

Jan Haluska, M.A., Assistant Professor of English
B.A.; M.A. (1981)

Lawrence E. Hanson, Ph.D., Academic Dean
B.A., California State University; M.A., University of California; Ph.D., Florida State University. (1966)

Ray Hefferlin, Ph.D., Professor of Physics
B.A., Pacific Union College; Ph.D., California Institute of Technology. (1955)

- Dorothy Hooper, M.S., Assistant Professor of Nursing**
B.S., Southern Missionary College; M.S., Loma Linda University. (1975)
- Duane F. Houck, Ph.D., Professor of Biology**
B.A., Emmanuel Missionary College; M.A., University of North Carolina; Ph.D., Iowa State University. (1973)
- Shirley Howard, M.S.N., Assistant Professor of Nursing**
B.S., Walla Walla College; M.S.N., University of Tennessee. (1974)
- Francis Hummer, Instructor of Industrial Education (1979)**
- Bonnie Hunt, M.S.N., Assistant Professor of Nursing**
B.S., Loma Linda University; M.S.N., University of Tennessee. (1977)
- Wayne Janzen, Ed.D. Professor of Industrial Arts**
B.S., Andrews University; M.A., Western Michigan University; Ed.D., Texas A. & M. (1967)
- Steven Jaecks, B.A., Instructor of Physical Education**
B.A., Loma Linda University. (1980)
- Carla Kamieneski, Ed.D., Associate Professor of Physical Education**
B.S., La Sierra College; M.Ed., Boston University; Ed.D., Brigham Young University. (1980)
- Robert Kamieneski, Ed.D., Associate Professor of Physical Education**
B.S., La Sierra College; M.Ed., Boston University; Ed.D., Brigham Young University. (1980)
- Catherine Knarr, M.S., Assistant Professor of Nursing**
B.S., Columbia Union College; M.S., University of Tennessee. (1974)
- Frank A. Knittel, Ph.D., President**
B.A., Union College; M.A., University of Colorado; Ph.D., University of Colorado. (1967)
- Helen D. Knittel, M.A., Assistant Professor of Office Administration**
B.S., Emmanuel Missionary College; M.A., Andrews University. (1980)
- Marie E. Krall, B.S., Instructor of Nursing**
B.S., Columbia Union College. (1973)
- Henry Kuhlman, Ph.D., Professor of Physics**
B.A., Emmanuel Missionary College; M.A., Western Michigan University; Ph.D., Purdue University. (1968)
- Edward L. Lamb, M.S.S.W., A.C.S.W., Associate Professor of Social Work and Family Studies**
B.S., Union College; M.S.S.W., University of Tennessee. (1972)

Faculty Directory

220

- Katie A. Lamb, B.S., *Instructor of Nursing*
B.S., Union College. (1973)
- Merritt MacLafferty, M.A., *Assistant Professor of Mathematics*
B.A., Union College; M.A., Pacific Union College. (1980).
- Ben McArthur, Ph.D., *Assistant Professor of History*
B.A., Andrews University; M.A., University of Chicago; Ph.D., University of Chicago. (1979)
- Caroline McArthur, M.S., *Assistant Professor of Nursing*
B.S., University of Mississippi; M.S., Emory University. (1979)
- Jack McClarty, Ed.D., *Director of Development*
B.M.Ed., University of Montana; M.M.Ed., Andrews University;
Ed.D., University of Montana. (1980)
- Wilma McClarty, Ed.D., *Professor of English*
B.A., Andrews University; M.A., Andrews University; Ed.D., University of Montana. (1972)
- Jerry McGill, Ph.D., *Associate Professor of Communication*
B.A., Union College; Ph.D., University of Denver. (1981)
- Robert W. Merchant, M.B.A., C.P.A., *Treasurer*
B.A., Emmanuel Missionary College; M.B.A., University of Arkansas. (1961)
- Donald Moon, Ph.D., *Professor of Physical Education*
B.A., Andrews University; M.A., San Diego State College; Ph.D., Florida State University. (1972)
- Robert Moore, M.S., *Assistant Professor of Mathematics*
B.S., Southern Missionary College; M.S., University of North Carolina. (1979)
- Jill Morgan, B.S., *Instructor of Nursing*
B.S., Memorial University of Newfoundland. (1981)
- Robert R. Morrison, Ph.D., *Professor of Modern Languages*
B.A., George Washington University; M.A., Middlebury College;
Ph.D., University of Florida. (1967)
- Helmut K. Ott, M.A., *Associate Professor of Religion*
B.A., Loma Linda College of Arts and Sciences; M.A., Inter-American University; M.A., Andrews University. (1971)
- Larry Otto, M.A., *Assistant Professor of Music*
B.S., Union College; M.A., University of Missouri. (1979)
- Gerald Owens, M.S., *Assistant Professor of Computer Science*
B.S., Loma Linda University; M.S. (2), University of Arizona. (1978)

- Christene Perkins, M.N., Associate Professor of Nursing
B.S., Southern Missionary College; M.N., Emory University. (1970)
- Olson Perry, M.A., Program Director, WSMC
B.A., City College of New York; M.A., Andrews University. (1977)
- Desmond Rice, Ed.D., Associate Professor of Education
B.A., Avondale College; M.A., San Francisco State University;
Ed.D., University of Southern California. (1979)
- Hazel Rice, Ed.S., Associate Professor of Nursing
B.S., Columbia Union College; M.S., University of Colorado; Ed.S.,
University of Colorado. (1978)
- E. William Richards, Jr., Ph.D., C.P.A., C.M.A., C.I.A., Associate Profes-
sor of Business Administration
B.S., Southern Missionary College; Ph.D., Michigan State Univer-
sity. (1977)
- Arthur Richert, Ph.D., Professor of Mathematics
B.A., Southern Missionary College; M.A. and Ph.D., University of
Texas. (1971)
- Richard Reiner, B.S., Business Manager
B.S., Union College. (1977)
- Charlene Robertson, M.S.N., Assistant Professor of Nursing
B.S., Southern Missionary College; M.S., University of Alabama.
(1977)
- Marvin L. Robertson, Ph.D., Professor of Music
B.Mus., Walla Walla College; M.A., University of Northern Col-
orado; Ph.D., Florida State University. (1966)
- Cyril E. Roe, Ed.D., Professor of Education
B.A., Pacific Union College; M.A., Pacific Union College; Ed.D.,
University of the Pacific. (1976)
- Cecil Rolfe, Ph.D., Professor of Business Administration
B.A., Columbia Union College; M.B.A., University of Maryland;
Ph.D., University of Maryland. (1964)
- Daniel Rozell, M.A., Associate Professor of Business Administration
B.S., Southern Missionary College; M.A., Central Michigan Univer-
sity. (1978)
- Barbara Ruf, Ph.D., Professor of English
B.A., Atlantic Union College; M.A., Boston University; Ph.D., Uni-
versity of Tennessee. (1969)
- Don Runyan, Ph.D., Associate Professor of Music
B.M.E., Union College; M.M.Voice, University of Indiana; Ph.D.,
George Peabody College for Teachers at Vanderbilt. (1968)

Faculty Directory

222

- Everett Schlisner, M.A., *Dean of Students*
B.S., Union College; M.A., Andrews University. (1974)
- Donald R. Self, M.A., *Manager, WSMC*
B.A., Southern Missionary College; M.A., Ohio University. (1971)
- Daphne Shah, M.S., *Assistant Professor of Nursing*
B.S.; M.S. (1976) (1982)
- David Smith, M.A., *Assistant Professor of English*
B.A., Andrews University; M.A., Andrews University. (1981)
- L. Steven Spears, M.B.A., C.P.A., *Assistant Professor of Business Administration*
B.S., Southern Missionary College; M.B.A., University of Tennessee. (1981)
- Sylvia Spears, M.S., *Assistant Professor of Nursing*
B.S., Southern Missionary College; M.S., San Jose State. (1981)
- Jean Springett, M.S., *Assistant Professor of Nursing*
B.S., Columbia Union College; M.S., University of Maryland. (1978)
- Ronald Springett, B.D., *Associate Professor of Religion*
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- Donna Spurlock, M.N., *Assistant Professor of Nursing*
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- David Steen, Ph.D., *Professor of Biology*
B.A., Southern Missionary College; M.A., Loma Linda University; Ph.D., Loma Linda University. (1974)
- Jeanette Stepanske, M.A., *Assistant Professor of Education*
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- Brian Strayer, M.A., *Assistant Professor of History*
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- Elvie Swinson, M.S., *Associate Professor of Nursing*
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- William H. Taylor, M.A., *Professor of English*
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Lois Thompson, B.S., Instructor of Nursing
B.S. (1981)

David C. Turner, M.Ed., Assistant Professor of Industrial Education
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B.A., Andrews University; M.B.A., University of Michigan; Ph.D., Michigan State University. (1956)

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Edwin Zackrisson, B.D., Associate Professor of Religion
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Faculty Directory

224

Jolene Zackrison, M.A.T., Assistant Professor of Office Administration
B.A., Andrews University; M.A.T., Andrews University. (1979)

Steven Zimmerman, Ph.D., Assistant Professor of Psychology
B.A., Columbia Union College; M.A., Towson State College; Ph.D.,
St. Louis University. (1977)

Tina Zimmerman, M.S., Assistant Professor of Nursing
B.S., Columbia Union College; M.S., St. Louis University. (1979)

Charles Zuill, M.F.A., Professor of Art
B.A., Atlantic Union College; M.F.A., Rochester Institute of
Technology. (1976)

Dates in parentheses indicate the beginning year of employment at Southern
College.

* Study leave

** Leave of Absence

ADJUNCT FACULTY

Education

Faculty of Collegedale Academy

Faculty of Spalding Elementary School

Southern Union Elementary Supervisors and/or Superintendents:

Shirley Goodridge, Alabama-Mississippi

Alice Robertson, Carolina

Elizabeth Hudak, Florida

Henry Farr, Georgia-Cumberland

Loraine Paulk, Kentucky-Tennessee

Samuel E. Gooden, South Atlantic

Joseph F. Dent, South Central
, Southeastern

Medical Technology

Erlanger Hospital:

Jerome Abramson, M.D., Medical Director

Elizabeth C. Shirley, M.A.T., MT (ASCP), Program Director

Florida Hospital:

Rodney Holcomb, M.D., Medical Director

Patricia Rogers, B.S., MT (ASCP), Program Director

Hinsdale Hospital:

Roland Lonser, M.D., Medical Director

Jack Blume, M.S., MT (ASCP), Program Director

Kettering Hospital:

Glenn Bylsma, M.D., Medical Director

Barbara C. Ellison, MT (ASCP), Program Director

Mary Ann Fiene, M.S., MT (ASCP), Academic Education Coordinator

Nursing

Collegedale

Ila Lepley
Walter Mickulick
James Posner
Shirley Spears
Jean Sutherland
Juanita Weddle
Joi Wolfe

Orlando

Betty Barker
Dorothy Brown
Louise Gusso
Connie Hamilton
Kathy Hinson
Brucie Huffman
Mary Lou Jones
Marty Keller
Marion Kierstead
Helen Lippert
Alice MacMahan
Herbert Mansfield
Kevin Metcalf
Dianne Mizelle
Eileen Moken
Gail Nusbaum
LaVeta Piper
Marie Prussia
Rosann Reilly
Carolyn Wrightman
Mary Wheeler

FACULTY COMMITTEES

The decision of any committee may be appealed to the college president.

ADMINISTRATIVE COUNCIL: Frank Knittel, Ron Barrow, Lawrence Hanson, Jack McClarty, Robert Merchant, Richard Reiner, Kenneth Spears.

PROMOTIONS COMMITTEE: Gerald Colvin, Ellen Gilbert, Jerry Gladson, Lawrence Hanson, Robert Morrison, Cecil Rolfe, Wayne VandeVere.

FACULTY SENATE: Frank Knittel, Robert Anderson, Bruce Ashton, Colleen Barrow, Douglas Bennett, Ron Carter, Gerald Colvin, John Durichek, Ted Evans, Robert Garren, Betty Garver, Ellen Gilbert, Lorenzo Grant, Lawrence Hanson, Carla Kamieneski, Charles Lacey, Ed Lamb, Katie Lamb, Robert Merchant, Merritt MacLafferty, Ben McArthur, Robert Moore, Chris Perkins, Barbara Ruf, Millie Runyan, David Steen, Jeanette Stepanske, Wayne VandeVere, Laurel Wells, Ed Zackrison, Jolene Zackrison, Charles Zuill, two students.

FACULTY SENATE EXECUTIVE COMMITTEE: Frank Knittel, Robert Garren, Ellen Gilbert, Lawrence Hanson, Richard Reiner, Barbara Ruf, Everett Schlisner, and Jolene Zackrison.

ACADEMIC AFFAIRS: Lawrence Hanson, Ron Barrow, Douglas Bennett, Melvin Campbell, Gerald Colvin, Charles Davis, Mary Elam, Floyd Greenleaf, Wayne Janzen, Donald Moon, Chris Perkins, Arthur Richert, Marvin Robertson, David Steen, Wayne VandeVere, two students.

Absence Subcommittee: Steve Zimmerman, Reed Christman, Dorothy Giacomozzi, Virginia Gustin, Becky Rolfe, and Ronald Springett.

Computer Users Subcommittee: Lawrence Hanson and Richard Reiner, Co-chairmen, John Beckett, Brad Davis, Mary Elam, Henry Kuhlman, Gerald Owens, Louesa Peters, Bill Richards, Laurel Wells.

Freshman Support Subcommittee: Ron Barrow, Chairman, Lawrence Hanson, Ted Evans, K. R. Davis, Virginia Gustin, Cathy Knarr, Everett Schlisner, Elvie Swinson, Millie Runyan, Ron Qualley.

General Education Subcommittee: Ed Lamb, Bruce Ashton, Lawrence Hanson, Bonnie Hunt, and Barbara Ruf.

Library Subcommittee: Katie Lamb, Wiley Austin, Peggy Bennett, Ann Clark, Charles Davis, Phil Garver, Lorenzo Grant, Helen Knittel, Jeanette Stepanske, Brian Strayer, Charles Zuill, and four students.

Teacher Education Council Subcommittee: Cyril Roe, Melvin Campbell, Joyce Cotham, Mary Elam, Edgar Grundset, Lawrence Hanson, Wayne Janzen, Carla Kamieneski, Howard Kennedy, Dean Maddock, Robert Moore, Robert Morrison, Helmut Ott, Desmond Rice, Marvin Robertson, Everett Schlisner, David Smith, Jeanette Stepanske, Brian Strayer, Charles Zuill, two students.

ADMISSIONS COMMITTEE: Ron Barrow, Lawrence Hanson, Ted Evans, Millie Runyan, Everett Schlisner, Sylvia Spears, Randy White.

DEVELOPMENT COMMITTEE: Jack McClarty, Chairman, John Baucom, Floyd Greenleaf, Donald Moon, Chris Perkins, Richard Reiner, Laurel Wells, Wayne VandeVere.

FACULTY AFFAIRS COMMITTEE: Desmond Rice, Judy Glass, Charlene Robertson, Steven Spears, David Steen, and Edwin Zackrison.

Social and Recreational (Faculty) Subcommittee: Jeanne Davis, Bruce Ashton, Earl Evans, Carla Kamieneski, and Mary Lou Rowe.

STUDENT AFFAIRS COMMITTEE: Everett Schlisner, Ted Evans, Robert Garren, E. O. Grundset, Jim Herman, Robert Kamieneski, Robert Merchant, Helmut Ott, Millie Runyan, Laurel Wells, three students.

Artist-Adventure Subcommittee: Robert Garren, Orlo Gilbert, Ben McArthur, Olson Perry, Bill Richards, Mitchell Thiel, Jolene Zackrison, three students.

Film Subcommittee: Robert Merchant, Reed Christman, Loranne Grace, Louesa Peters, Ed Zackrison, two students.

General Recreation Subcommittee: Robert Kamieneski, Steve Jaecks, Henry Kuhlman, Callie McArthur, Sue TeHennepe, Tina Zimmerman, three students.

Loans and Scholarships Subcommittee: Laurel Wells, Reed Christman, K. R. Davis, Orlo Gilbert, Dorothy Somers, Elvie Swinson, two students.

Programs Subcommittee: Edgar Grundset, Frances Andrews, Frank DiMemmo, Robert Moore, Jean Springett, four students.

Religious Life Subcommittee: James Herman, Leona Gulley, Jerry Gladson, Lorenzo Grant, Cyril Roe, Daniel Rozell, Everett Schlisner (Consultant), four students.

Student Personnel Subcommittee: Everett Schlisner, Reed Christman, K. R. Davis, Earl Evans, Ted Evans, Virginia Gustin, Eleanor Hanson, Jim Herman, Cliff Myers, Ron Qualley, Becky Rolfe, Millie Runyan, Dorothy Somers.

The following *ad hoc* committees function under the supervision of the Dean of Students: Ministerial Recommendations; Medical Student Recommendations.

The decision of any committee may be appealed to the college president.

INDEX

Absences	31	Art	39
Abbreviations, Divisional	36	Behavioral Science	80
Academic Calendar	ii	Family Studies	80
Academic Information	27	Psychology	80
Academic Probation and Dismissal	30	Social Work	80
Academy Building	4	Sociology	80
Accounting, Courses in	68	Biology	150
Accounts, Statements and Billing	196, 199	Business Administration	66
Accreditation and Memberships	3, 87	Business Education	72
Administration Building	4	Chemistry	155
Administrative Staff	212	Computer Science	126
Admission to SC	10	Math	126
Admission to Teacher Education	88	Business	126
Advance Payment	198	Education	86
Adventist Colleges Abroad		Accreditation	87
Financial Policy	198	Elementary	86
Allied Health Professions	159	Professional Semester	88
Anesthesia	189	Secondary	92
Application Procedure	13	Health Science	109
Applied Theology, Courses in	186	Home Economics	99
Art, Courses in	39	Industrial Education	115
Arthur W. Spalding School	4	Long-Term Health Care	66
Associate Degree Programs	25	Mathematics	129
Accounting	66	Medical Science	162
Child Care Administration	86	Medical Technology	163
Computer Science	126	Nursing	168
Construction Technology	117	Physics	132
Food Service	101	Banking and Cash Withdrawals	203
Home Economics	101	Bankruptcy	202
Industrial Technology	118	Behavioral Science, Courses in	80
Long-Term Health Care	67	Biblical Language, Courses in	187
Media Technology	44	Biblical Studies, Courses in	183
Nursing	169	Biology, Courses in	151
Office Administration	72	Board of Trustees	211
Attendance Regulations	34	Executive Board	211
Auditing Courses	28	Business Administration,	
Aviation, Courses in	123	Courses in	65
Baccalaureate Degree Majors	25	Campus Organizations	8
Bachelor of Arts	25	Certification	3, 87
Art	39	Changes in Registration	27
Biology	149	Chapel Attendance	32
Chemistry	155	Chemistry, Courses in	156
Communication	43	Class Attendance	32
English	49	Class Standing	17
French	60	College Plaza	4
German	60	College Publications	45
Health, Physical Education		College Within a College	188
and Recreation	109	Collegedale Church	4
History	54	Commercial Auxiliaries Managers	213
International Studies	60	Communication, Courses in	45
Mathematics	129	Computer Center	4
Music	143	Computer Science, Courses in	127
Physics	132	Concert-Lecture Series	8
Psychology	80	Conduct	8
Religion	179	Construction, Courses in	117
Spanish	60	Correspondence Work	34
Theology	179	Counseling	6
Bachelor of Business Administration	65	Course Load	28
Bachelor of Music Education	141	Course Numbers	35
Bachelor of Science	25	Course Sequence	34
Accounting	66		

Daniells Hall	4	Food Service	197
Dean's List	24	Foreign Student Deposit	12
Degree Requirements, Basic	15	Housing	196
Degrees Offered	25	Late Registration	27
See Associate of Science	25	Tithe and Church Expense	204
Bachelor of Arts	25	Tuition and Fees	194
Bachelor of Music	141	Tuition Refunds	201
Bachelor of Science	25	Family Rebate	194
General Education		Methods of Payment	199
Requirements	19	Fine Arts Series	8
Major and Minor		Food and Nutrition, Courses in	101
Requirements	24	Food Service, One-Year	
Dental Hygiene	159	Certificate Course	101
Dentistry	189	Foreign Study	38, 59
Dietetics	160	French, Courses in	61
Dining Services	6, 197	Freshman Standing	10
Dismissal	30	Full-Time Student	29
Division of		Gardening, Courses in	151
Arts and Letters	37	General Education Classes	19
Business and Office Administration	64	General Education, Purpose of	18
Education and Human Sciences	79	General Education Requirements	19
Health, Physical Education		Geography, Course in	58
and Recreation	109	German, Courses in	62
Industrial Education	115	Grading System	29
Mathematical Sciences	125	Graduation in Absentia	17
Music	139	Graduation Requirements	17
Natural Science	149	Graduation with Honors	24
Nursing	166	Greek, Courses in	187
Religion	179	Grievance Procedure	31
Earth Science, Courses in	136	Guidance and Counseling	6
Economics, Courses in	65	Hackman Hall	4
Education, Courses in	95	Health Insurance	202
Elementary Education	89	Health Service	6
Employment Service	7	History of the College	2
English, Courses in	49	History, Courses in	56
Proficiency in	12	Home Economics, Courses in	104
Engineering	136	Home Management, Courses in	103
Examinations		Honors, Graduation with	24
Attendance	32	Honors Program	22
Credit by	33	Honors Studies Sequence	23
CLEP	33	Housing	196
Special	33, 34	Deposit	197
Expenses (See Student		Humanities, Course in	39
Financial Information)	194	Incompletes	29
Facilities	4	Industrial Education, Courses in	118
Faculty	215	Industrial Superintendents	213
Committees	226	Instructors, Supervisory	
Directory	215	Elementary Education	85
Financial Information	194	Secondary Education	85
Aid	204	Interest	202
Grants	207	International Students	11
Loans	207	Jones Hall	4
Satisfactory Academic		Journalism, Courses in	47
Progress for	205	Junior College Credit	11
Scholarships	207	Labor Regulations	203
Veterans	207	Foreign Students	204
Banking and Cash Withdrawals	203	Labor-Class Load	29
Expenses			
Advance Payments	198		
Application Fee	13		

Late Registration	27	Expenses	196, 198
Law	190	Loans	204
Ledford Hall	4	Scholarships	204
Library Science, Courses in	105	Objectives of the College	1
Loans	207	Occupational Therapy	161
Lynn Wood Hall	4	Office Administration, Courses in	75
Major and Minor Requirements	24	On-the-Job Training	45
Mathematics, Courses in	129	One-Year Certificates	17, 26
Mazie Herin Hall	4	Auto Body, Repair and Refinishing	118
McKee Library	4	Food Service	101
Medical Records Administration	160	Optometry	191
Medical Science	162	Organizations	8
Medical Technology, Course in	163	Orientation Program	7
Medicine	190	Osteopathic Medicine	191
Miller Hall	4	Petition	31
Minors	25	Pharmacy	192
Applied Theology	181	Philosophy	1
Art	40	Physical Education Building	4
Behavioral Science	80	Physical Education, Courses in	110
Biblical Languages	182	Physical Therapy	161
Biology	150	Physics, Courses in	133
Business Administration	66	Placement	7
Chemistry	155	Political Science, Courses in	57
Communication	43	Pre-professional and	
Computer Science	127	Technical Curricula	26, 189
English	49	Anesthesia	189
English Related Fields	49	Dental Hygiene	159
Family Studies	80	Dentistry	189
Foods and Food Service	100	Dietetics	160
French	60	Law	190
German	60	Medical Records Administration ...	160
Health, Physical Education,		Medicine	190
and Recreation	108	Occupational Therapy	161
History	55	Optometry	181
Home Economics	100	Osteopathy	191
Industrial Education	115	Pharmacy	192
Journalism	43	Physical Therapy	161
Library Science	101	Public Health Science	192
Mathematics	129	Radiology Technology	161
Music	139	Respiratory Therapy	162
Office Administration	73	Veterinary Medicine	193
Physics	132	Probation	30
Psychology	80	Programs of Study	15
Radio-TV-Film	43	Psychology, Courses in	81
Religion	182	Public Health Science	192
Sociology	80	Publications	8, 45
Spanish	60	Radiology Technology	161
Speech	44	Radio Station, WSMC-FM	4
Modern Languages, Courses in	61	Radio-TV-Film, Courses in	45
Music, Courses in	143	Refund Policy	201
Curricula		Credit Refund	201
Bachelor of Music	140	Registration	27
Bachelor of Arts	143	Rehabilitation Act	5
Ensembles	147	Religion, Courses in	183
Fees	195	Religious Organizations	8
Nursing, Courses in	166	Residence Halls	5
Accreditation	3	Residence Requirements	18
Admission Requirements ..	11, 169, 173	Respiratory Therapy	162
Curricula	171, 176	Right of Petition	31

Scholarships	204	Theology, Courses in Applied	183
Scholastic Probation	30	Tithe and Church Expense	204
Secondary Education	92	Transcripts	34, 202
Self-Supporting Work, Course in	187	Transfer of Credit	18
Senior Placement Service	7	Transfer Students	11
Sequence of Courses	34	Trustees, Board of	211
Service Auxiliaries, Managers	213	Tuition and Fees	194
Setting of College	2	Tuition Refunds	201
SC Principals and Presidents	210	Two-Year Terminal Curricula	25
SC Students	3	Accounting	66
Social Work, Courses in	83	Computer Science	126
Sociology, Courses in	84	Construction Technology	117
Spanish, Courses in	62	Food Service	101
Special Student	11	Home Economics	101
Special Fees and Charges	195	Industrial Technology	118
Speech, Courses in	48	Media Technology	44
Standards of Conduct	8	Nursing	169
Student Association	7	Office Administration	72
Student Center	4	Upper Division	18
Student Employment Service	7	Veterans	207
Student Life and Services	5	Veterinary Medicine	193
Study and Work Load	29	Withdrawals	203
Subject Requirements		Work-Study Schedule	29
for Admission	10	Worship Services	9
Summerour Hall	4	Wright Hall	4
Talge Hall	4	WSMC-FM	4
Teacher Education Certification	87		
Textiles and Clothing, Courses in	104		
Thatcher Hall	4		

1882

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JULY							AUGUST							SEPTEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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OCTOBER							NOVEMBER							DECEMBER								
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31

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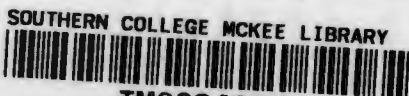
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APRIL							MAY							JUNE								
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JULY							AUGUST							SEPTEMBER								
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OCTOBER							NOVEMBER							DECEMBER								
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30	31																					

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Open to black flag opposite the proper designation.

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